Tools for R&D Professionals

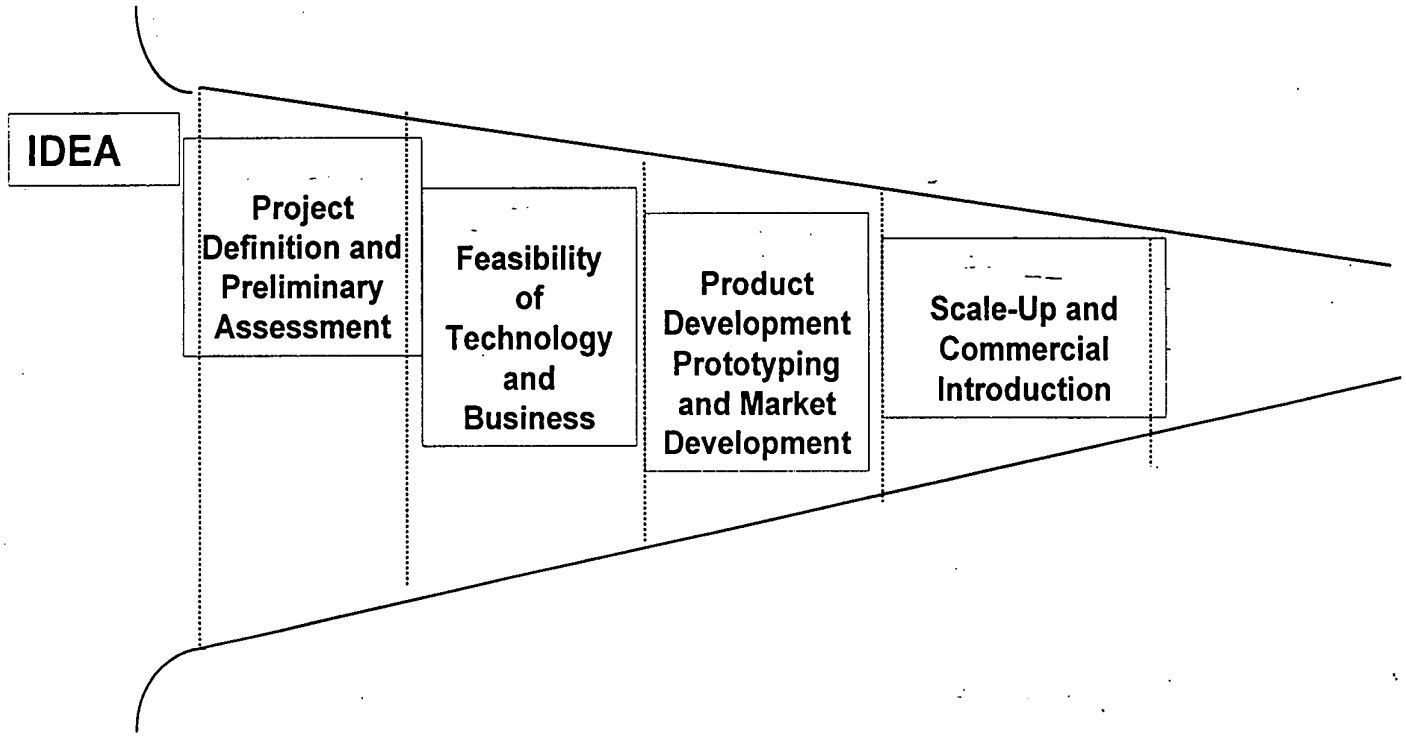


FIG.1

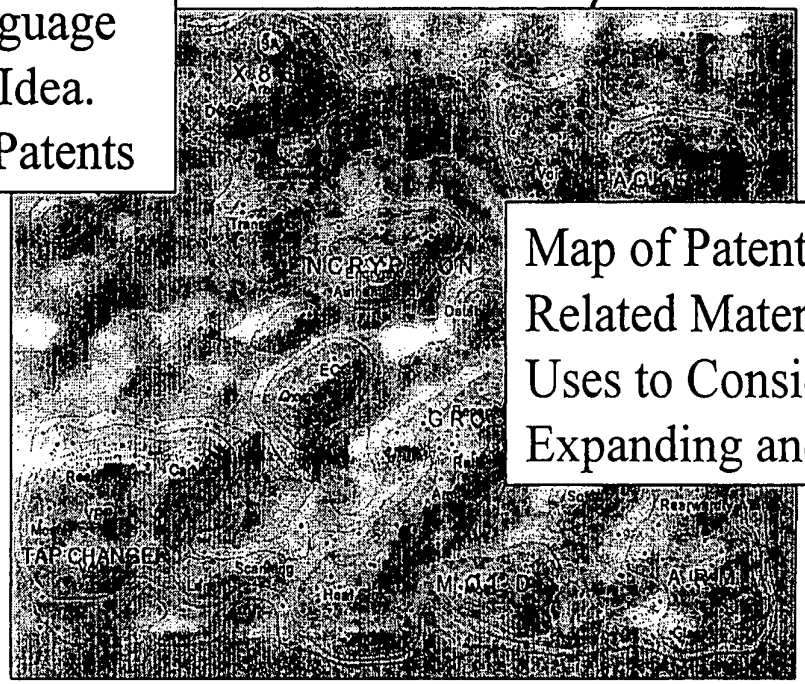
R&D Tools Map

			R&D Stages				
			Preliminary				Portfolio
		Idea	Assessment	Feasibility	Development	Scale-up	
202 Topographic map	Overall view of related art, uses, competitors	1	10	21	33		51
204 Top Company Table	Ranked List of Companies	2					
206 Top Inventor Table	Ranked List of Inventors	3					
208 Inventors by Company Table	Ranked List of Inventors in each Company		11	22			
210 Features Grouping	Overall view of feature set to offer		12	23	34		
212 Technology classification	Which technical fields produce similar feature sets	4	13	24	35	44	
214 SIC classification	Which market segments can use the product / services		14	25	36		
216 Patent count / year	How fast is product / use technology changing	5					
218 Patent count / year	How fast is project technology changing		15	26	37	45	
220 Application count / year	Which other companies are active in project area		16	27	38	46	
222 Technology by Company map	Technical assessment of serious competitors and partners	6	17	28	39	47	
224 Patent Citation Tree	View of which companies can block and/or circumvent other's patents	7	18	29	40		
226 Nested Patent Citation Tree	Prediction of related technology / markets under exploration	8	19	30	41	48	
228 Product / Patent / Revenue Table	Which products, and their revenue stream size, are protected by patents						52
230 Patent, Months to Issue	How long is typical company & patent office cycle time per field			31	42	49	54
232 Document / Annotation	Immediate, linked, searchable documentation of facts and ideas	9	20	32	43	50	55

FIG. 2

Tool #1
A Map of Similar Ideas, Art and Markets

Created By: Boolean and Natural Language Searches on the Idea. Group: All US Patents



Map of Patent Abstracts Identifies Related Materials, Processes, and Uses to Consider When Expanding and Refining the Idea

Implication: Other People Are Doing Similar Things and Selling Them, Demonstrating the Idea Is Reasonable From a Technical and Market Standpoint. The Map Also Allows Sub-groupings for Further Exploration.

FIG. 3

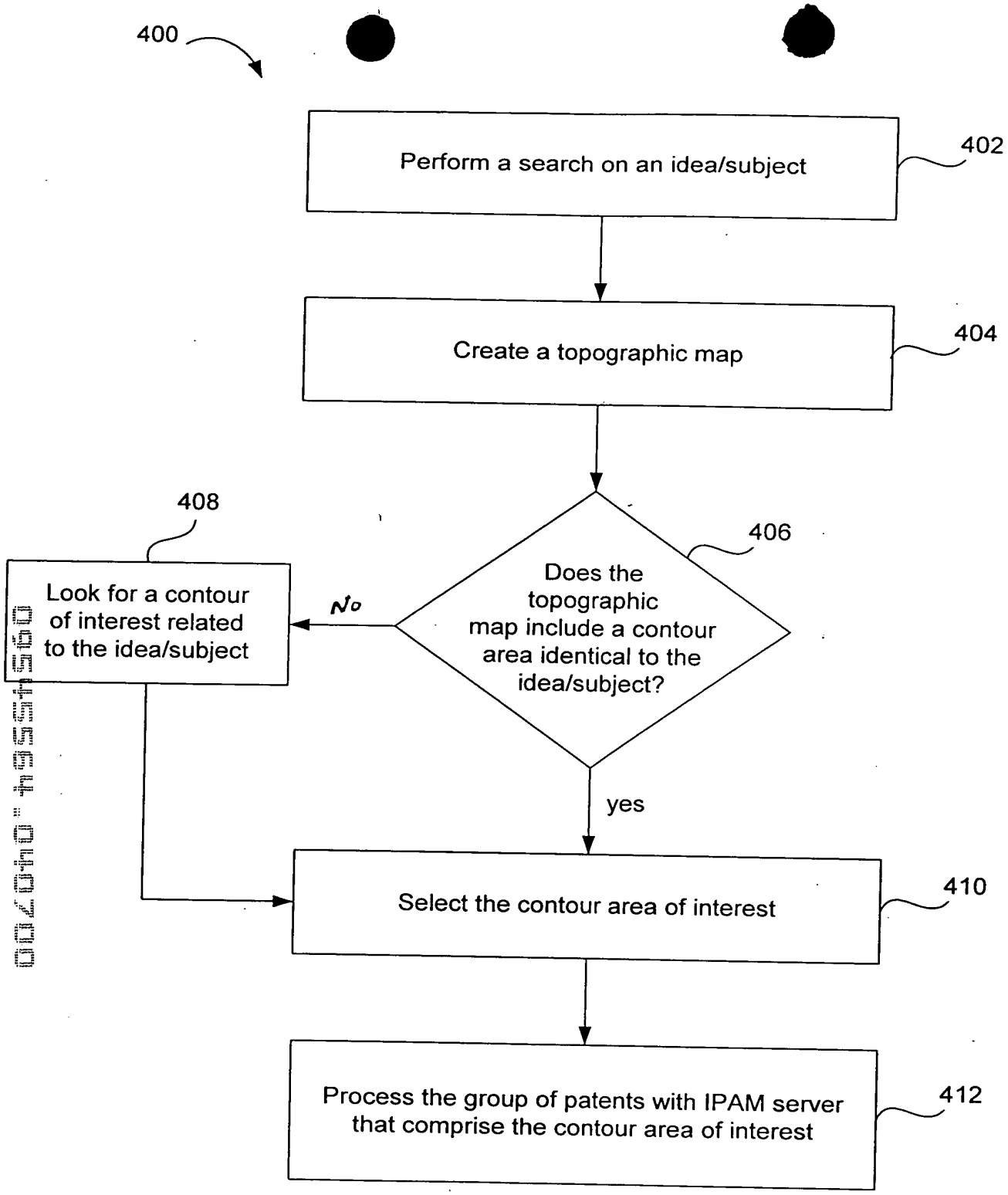


FIG. 4

0001-73.vsd/1

Tool #10
Map of Similar Technology and Uses

Created by: Boolean and Natural Language Searches on Project Concept Group: All US and Europe Patents and European Applications

Map of Patent Abstracts Identifies Related Art and Companies to Consider When Initially Assessing the Idea

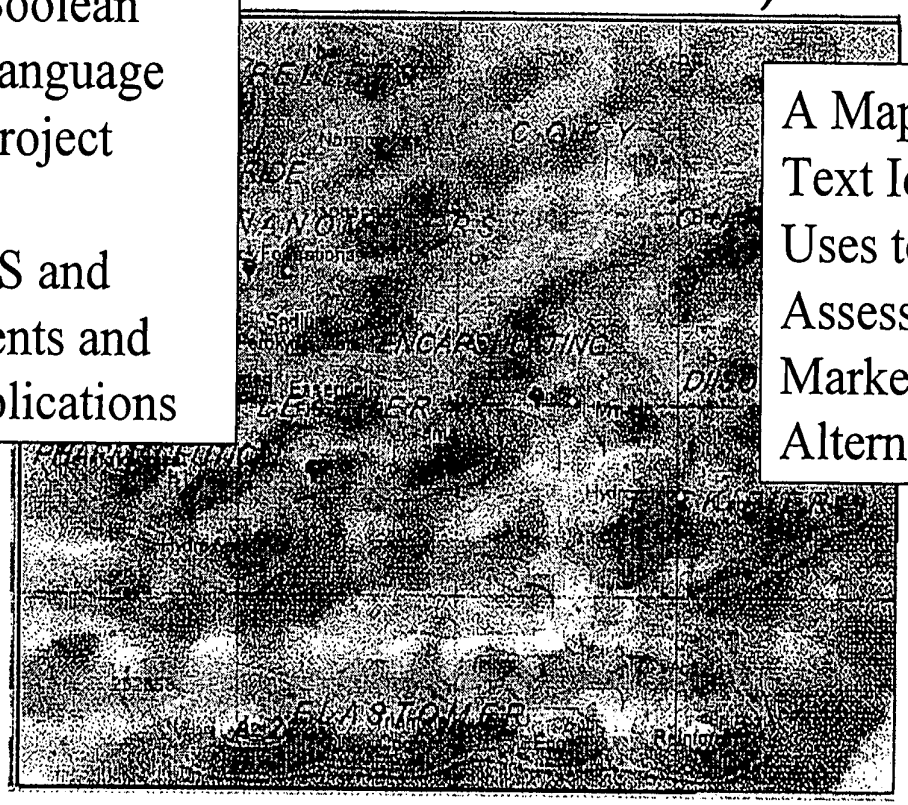
Implication: The Project Team Has a High Level Map of the Project Scope, Showing the Range of Materials, Processes and Uses to Consider on the Project

FIG.5

Tool #21

A Map of Technology and Uses the Project Team Is Focused on Refining

Created By: Boolean and Natural Language Searches on Project Concept
Group: All US and European Patents and European Applications



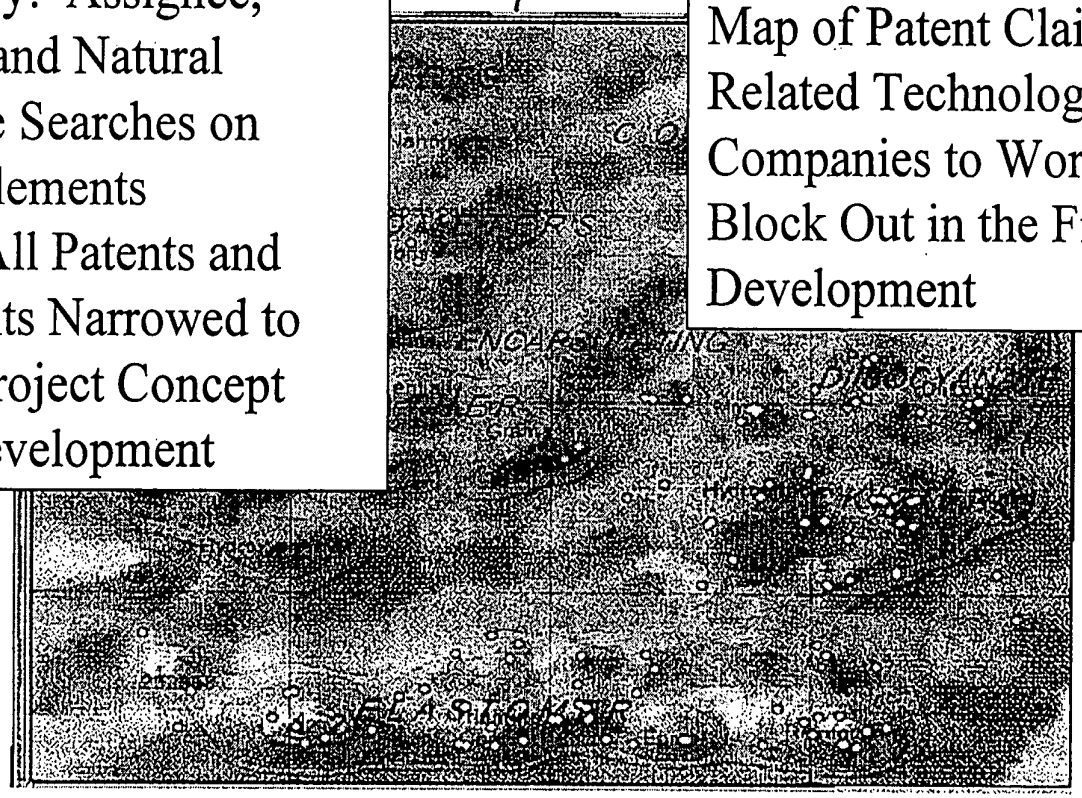
A Map of Full Patent Text Identifies Art and Uses to Consider When Assessing Feasibility of Market and Technical Alternatives

Implication: The Project Team and Management Have a High Level Map of Technologies and Markets Which Are Feasible to Explore

FIG. 6

Tool #33
Map of Competitive Technology and Uses

Created by: Assignee, Boolean and Natural Language Searches on Project Elements
Group: All Patents and Documents Narrowed to Reflect Project Concept Under Development

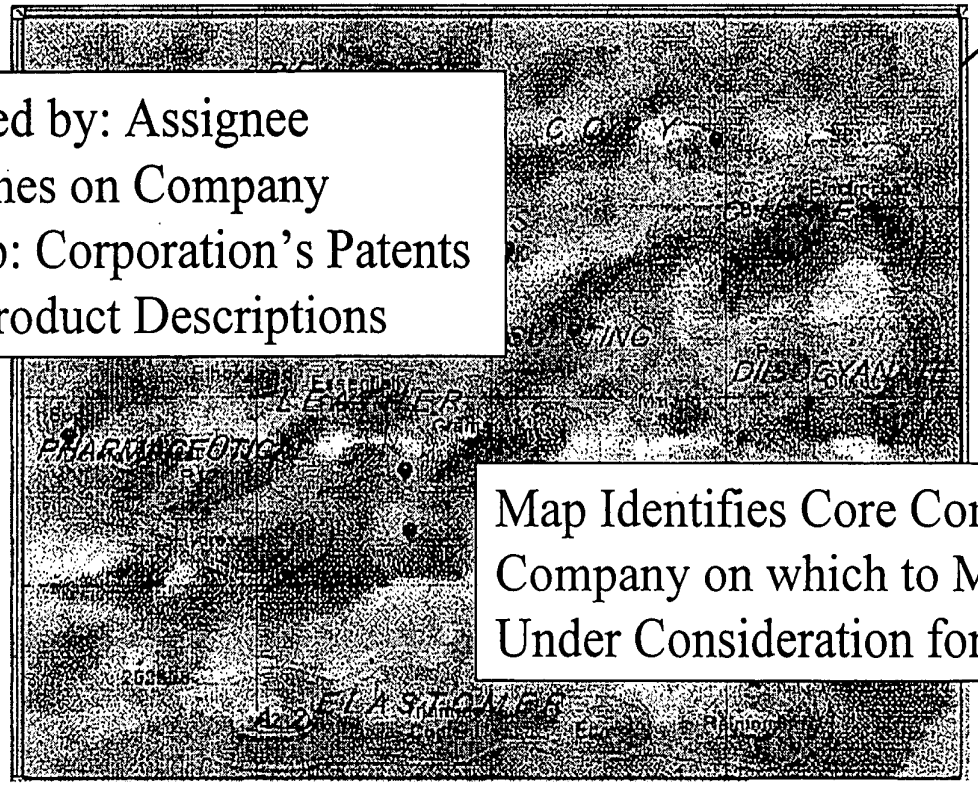


Map of Patent Claims Identifies Related Technologies and Companies to Work Around and Block Out in the Final Stage of Development

Implication: The Project Team and Management Has a High Level Map of Technologies and Markets Which Are (1) Under Development (2) Potentially Competitive

FIG. 7

Tool #51
Map of Company Competency & New Projects



Implication: Map Provides Management With a Visual Image of Core Competencies and Future Directions

FIG. 8

Tool #2

A Table of Assignees

204

Assignee - U.S. Patent Count Report for Microwave Food Heating - US Patents

Assignee	Document Count
Matsushita Electric Industrial Co., Ltd.	81
Raytheon Company	77
General Electric Company	59
	48
	46
	42
	36
	33
	33
	27
Inc.	26
represented by the Secretary of the	25
Amana Refrigeration, Inc.	24
E. I. Du Pont de Nemours and Company	23
James River Corporation	22
Champion International Corporation	21
E. Khashoggi Industries	20
Minnesota Mining and Manufacturing Company	19
The United States of America as represented by the Secretary of the	18
International Paper Company	16
Sanyo Electric Co., Ltd.	16
Andrew Corporation	15
Daewoo Electronics Co., Ltd.	15
Golden Valley Microwave Foods, Inc.	15
International Flavors & Fragrances Inc.	15
Mobil Oil Corporation	15
Nabisco Brands, Inc.	15
The Procter & Gamble Company	15

Created By: Boolean and Natural Language Searches on the Idea. Group: All US Patents

Table of Assignees Gives New Ideas on Technology and Markets to Consider When Expanding and Refining the Idea

Implication: Shows the Quality and Variety of Top Companies Who Are Also Active in Areas Surrounding the Idea

FIG. 9

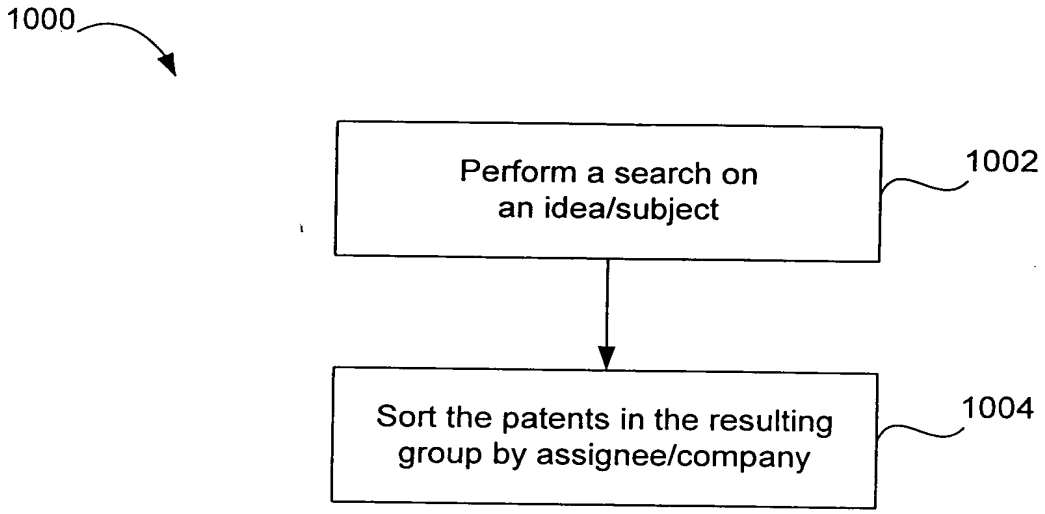

1000
Perform a search on an idea/subject
1002
Sort the patents in the resulting group by assignee/company
1004

FIG. 10

Tool #3

A Table of Inventors

206

Inventor - U.S. Patent Count Report for Microwave Food Heating - US Patents

Inventor Name	Document Count
Levinson, Melvin L.	21
Hodson, Simon K.	20
	20
	19
	18
	15
	14
	14
	14
	13
	12
Kusunoki, Shigeru	
Pawlowski, Thomas D.	
Seaborne, Jonathan	
Lentz, Ronald R.	
Simpson, James E.	
Watkins, James D.	
Byrne, Brian	
Dobie, Michael J.	
Dudley, Kenneth W.	
Fitzmayer, Louis H.	
Norris, John R.	10
Schiffmann, Robert F.	10
Turpin, Charles H.	10
Buck, Ronald G.	10
Colato, Albert E.	9
Cox, David H.	9
	9

Created By: Boolean and Natural Language Searches on the Idea. Group: All US Patents

Table of Inventors Identifies People Who Have Worked In This Area on Which to Run Literature Searches

Implication: Shows the Quality and Variety of Top Individuals Who Are Active in Areas Surrounding the Idea.

FIG. 11

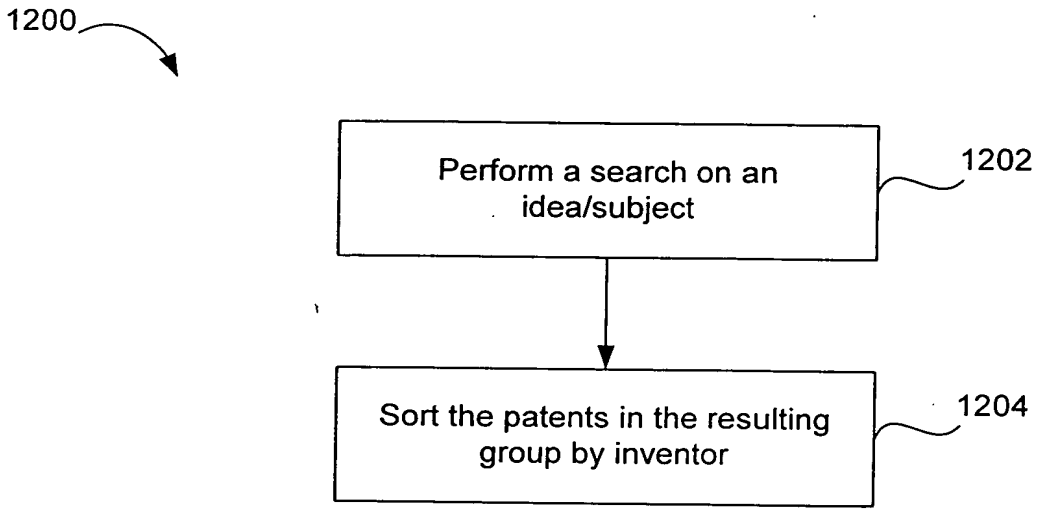

1200
Perform a search on an idea/subject
1202
Sort the patents in the resulting group by inventor
1204

FIG. 12

Tool #11

A Table of Inventors by Assignee

208

Inventor - U.S. Patent Count by Assignee for Microwave Food Heating - US Patents

Inventor Name	Assignee	Document Count
Levinson, Melvin L.		
	General Housewares Corporation	20
		1
		21
	E. Khashoggi Industries	17
	E. Khashoggi Industries, LLC	2
	E. Khashoggi, Industries	1
		20
	Patentsmith Corporation	
	Patentsmith Corportion	
	Patentsmith II, Inc.	
	Patentsmith Technology, Ltd.	
	Smith; Donald P.	
Bowen, Robert F.		
	Raytheon Company	
Tanaka, Junzo		
	Matsushita Electric Industrial C	
Pesheck, Peter S.		
	The Pillsbury Company	1
		14
		15
Brown, Richard K.		
	James River - Norwalk, Inc.	1
	James River Corporation	4

Created By: Boolean and Natural Language Searches on the Idea. Group: All US and European Patents

Table of Inventors by Assignee Identifies People Who Have Worked In This Area on Which to Run Literature Searches and Establish Partnership Contacts

Implication: Shows Which Top Individuals, at What Companies, May Be Resources For The Project Team

FIG. 13

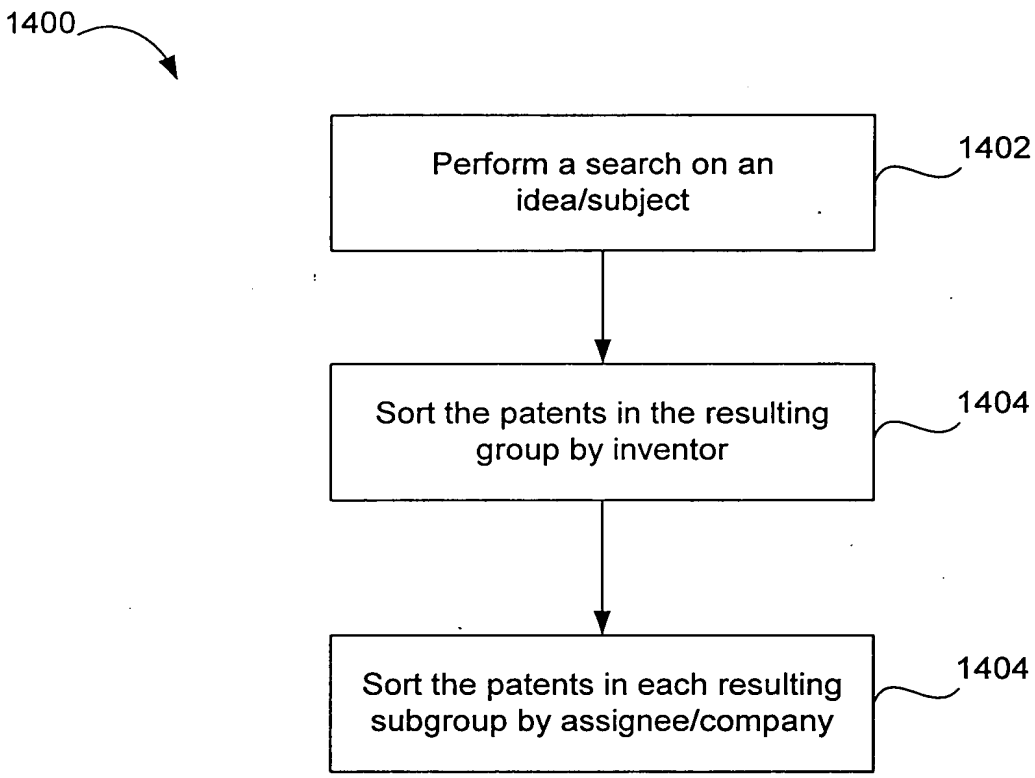

1400
Perform a search on an idea/subject
1402
Sort the patents in the resulting group by inventor
1404
Sort the patents in each resulting subgroup by assignee/company
1404

FIG. 14

Tool #22

A Table of Inventors by Assignee

Inventor - U.S. Patent Count by Assignee for Microwave Food Heating - US Patents

208

Inventor Name	Assignee	Document Count
Levinson, Melvin L.		
	General Housewares Corporation	20
		1
		21
	E. Khashoggi Industries	17
	E. Khashoggi Industries, LLC	2
	E. Khashoggi, Industries	1
		20
	Patentsmith Corporation	
	Patentsmith Corportion	
	Patentsmith II, Inc.	
	Patentsmith Technology, Ltd.	
	Smith; Donald P.	
Bowen, Robert F.		
	Raytheon Company	
Tanaka, Junzo		
	Matsushita Electric Industrial Co.	
		16
Pesheck, Peter S.		
	The Pillsbury Company	1
		14
		15
Brown, Richard K.		
	James River - Norwalk, Inc.	1
	James River Corporation	4

Created By: Boolean and Natural Language Searches on the Idea. Group: All US and European Patents and European Applications

Table of Inventors by Assignee Identifies People Who Have Worked In This Area on Which to Run Literature Searches and Establish Partnership Contacts

Implication: Shows Which Individuals May Be Resources For The Project Team, and Which to Commence Competitive Intelligence

FIG. 15

Tool #12
Groupings of Proposed Product Features

Created by: Product Attributes Which Are Sorted and Grouped Groups: Corporate and Patent Documents

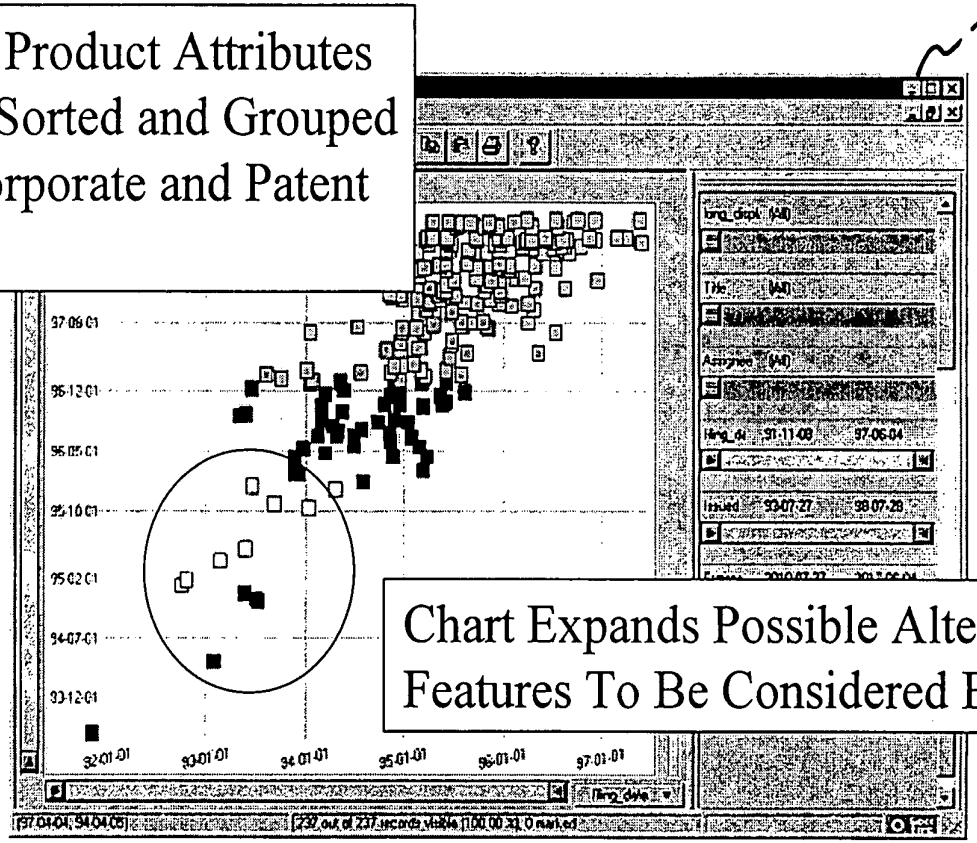


Chart Expands Possible Alternative Customer Features To Be Considered By Project Team

Implication: Distinctive and Sometimes Known Product Feature Sets Are Uncovered Early in Project

FIG. 16

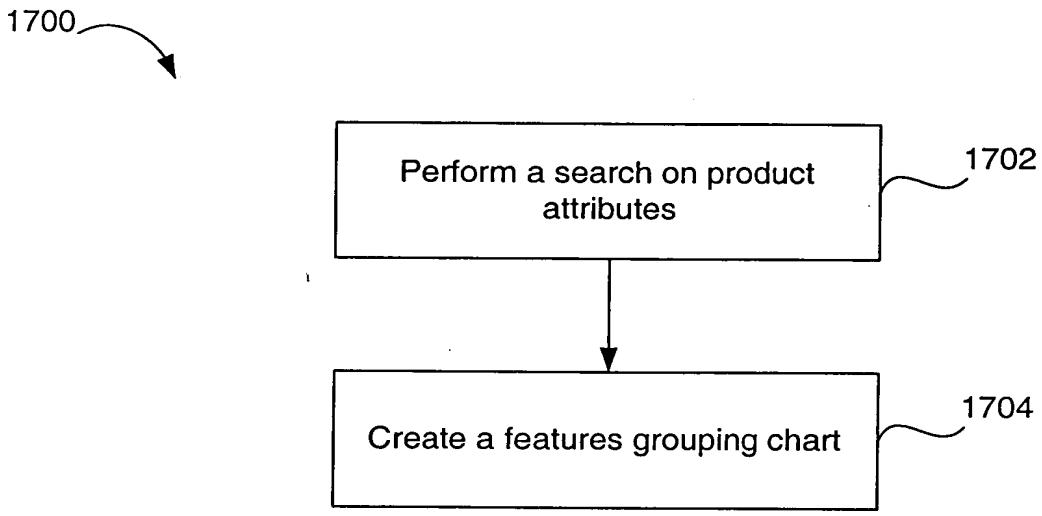
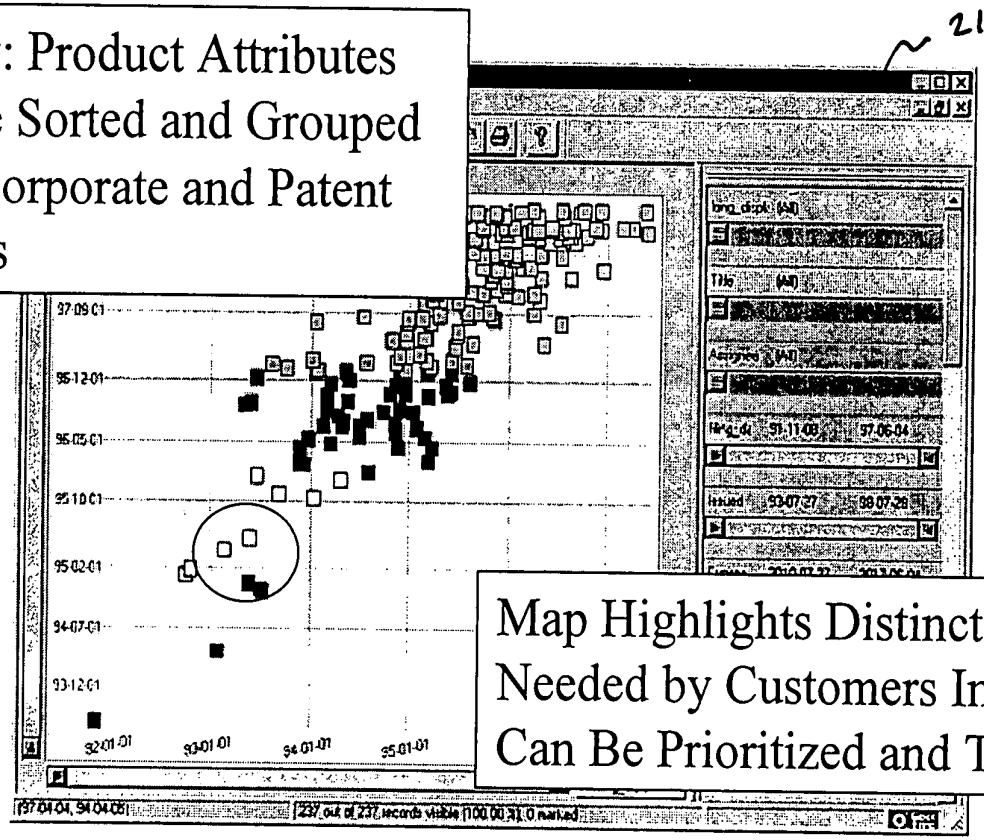

1700
Perform a search on product attributes
1702
Create a features grouping chart
1704

FIG. 17

Tool #23
Map of Which Proposed Product Features Are Feasible

Created by: Product Attributes Which Are Sorted and Grouped
Groups: Corporate and Patent Documents

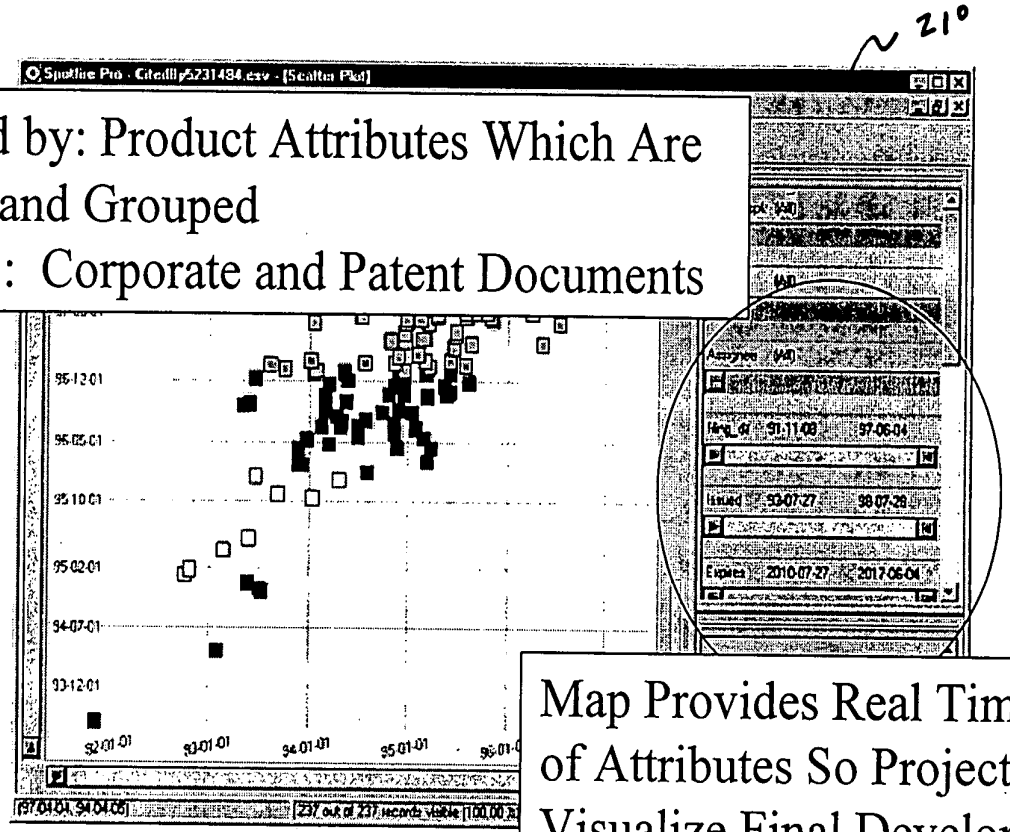


Map Highlights Distinctive Features Needed by Customers In a Way They Can Be Prioritized and Traded-off

Implication: Product Feature Sets Are Found Early in the Project Via Previous Internal and Partner's Research

FIG. 18

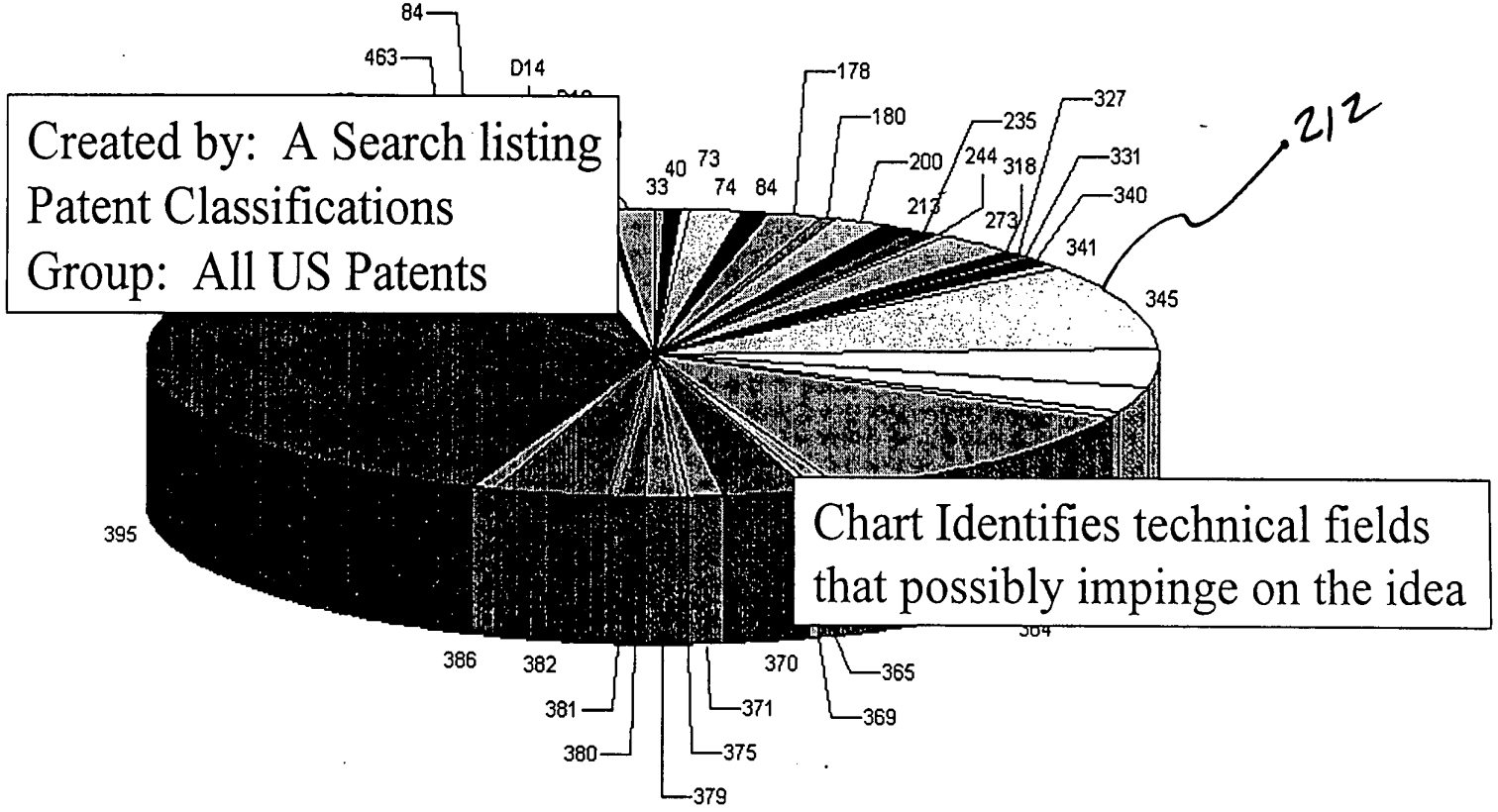
Tool #34
Map of Achievable Product and Service Features



Implication: Product Feature Sets Are Visualized and Presented to Gate Review Team In a Dynamic Form

FIG. 19

Tool #4
A Chart of Similar Technologies



Created by: A Search listing
Patent Classifications
Group: All US Patents

Chart Identifies technical fields that possibly impinge on the idea

Implication: The Inventor Knows What Other Technologies Might Be Used To Build Upon The Initial Concept

FIG. 20

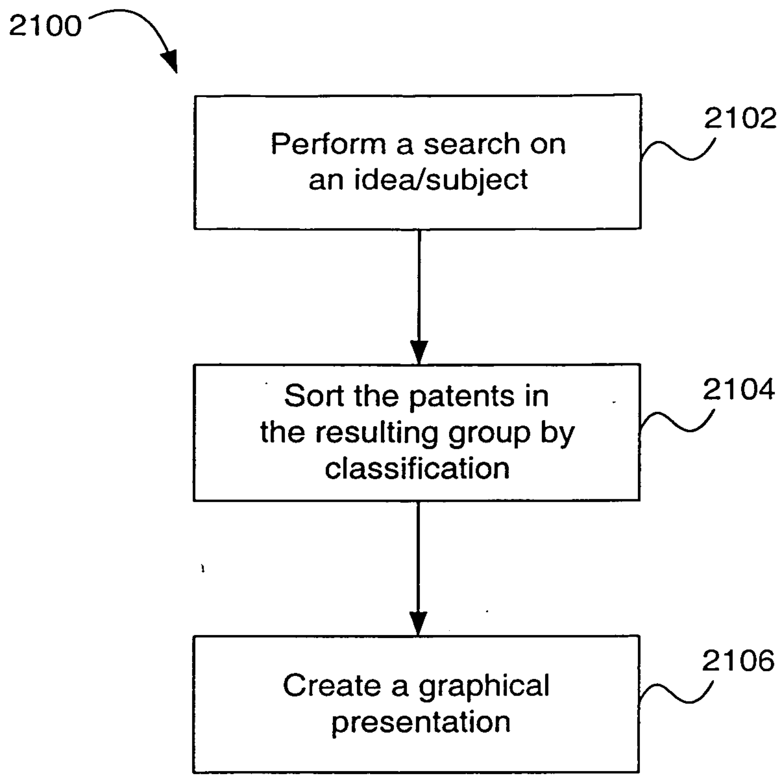


FIG. 21

Tool #13
A Chart of Similar Technologies

Created By: Search Listing of Patent Classifications
Group: All US and Europe Patents and European Applications

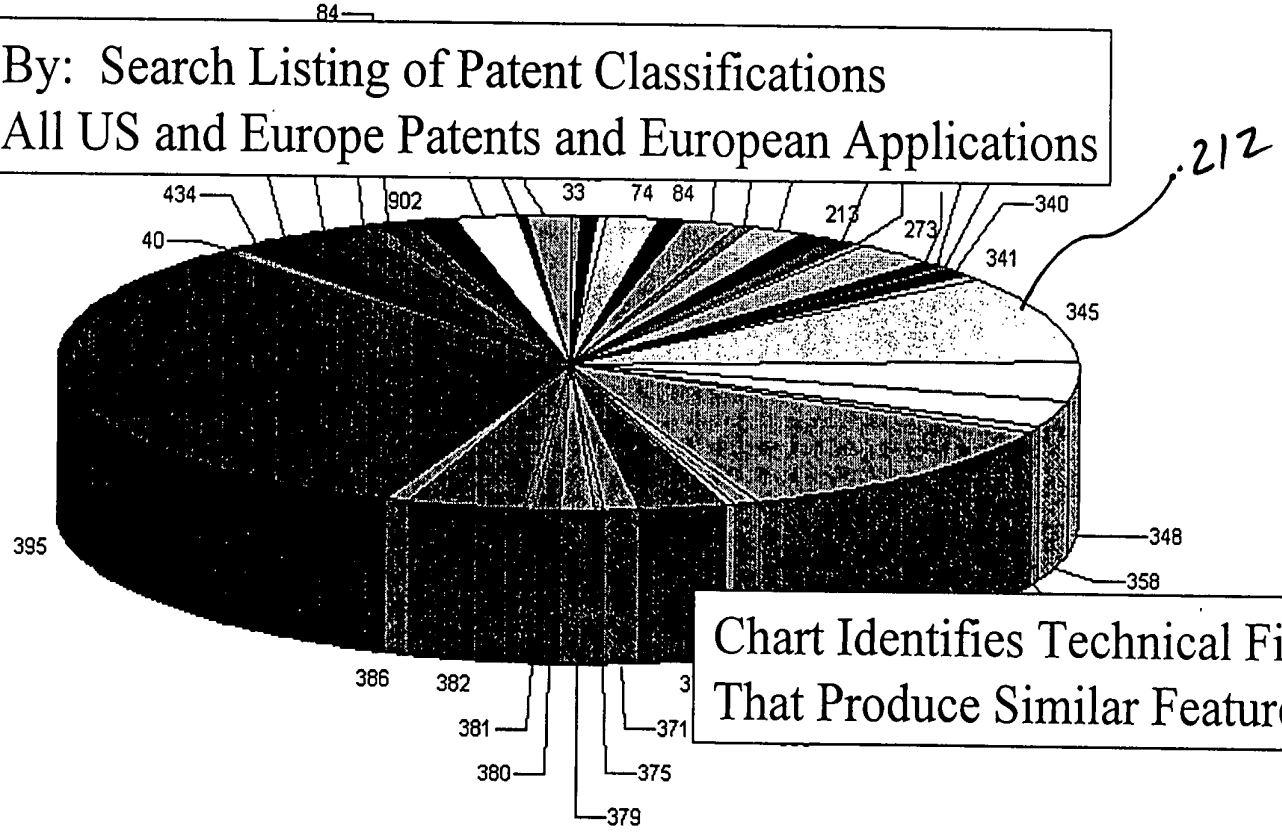


Chart Identifies Technical Fields
That Produce Similar Feature Sets

Implication: Project Team Finds What Other Technologies
Should Be Considered or Which Might Be Used by Competitors

FIG. 22

Tool #24
A Chart of Similar Technologies

Created by: A Search listing Patent Classifications Group: All US and European Patents and European Applications

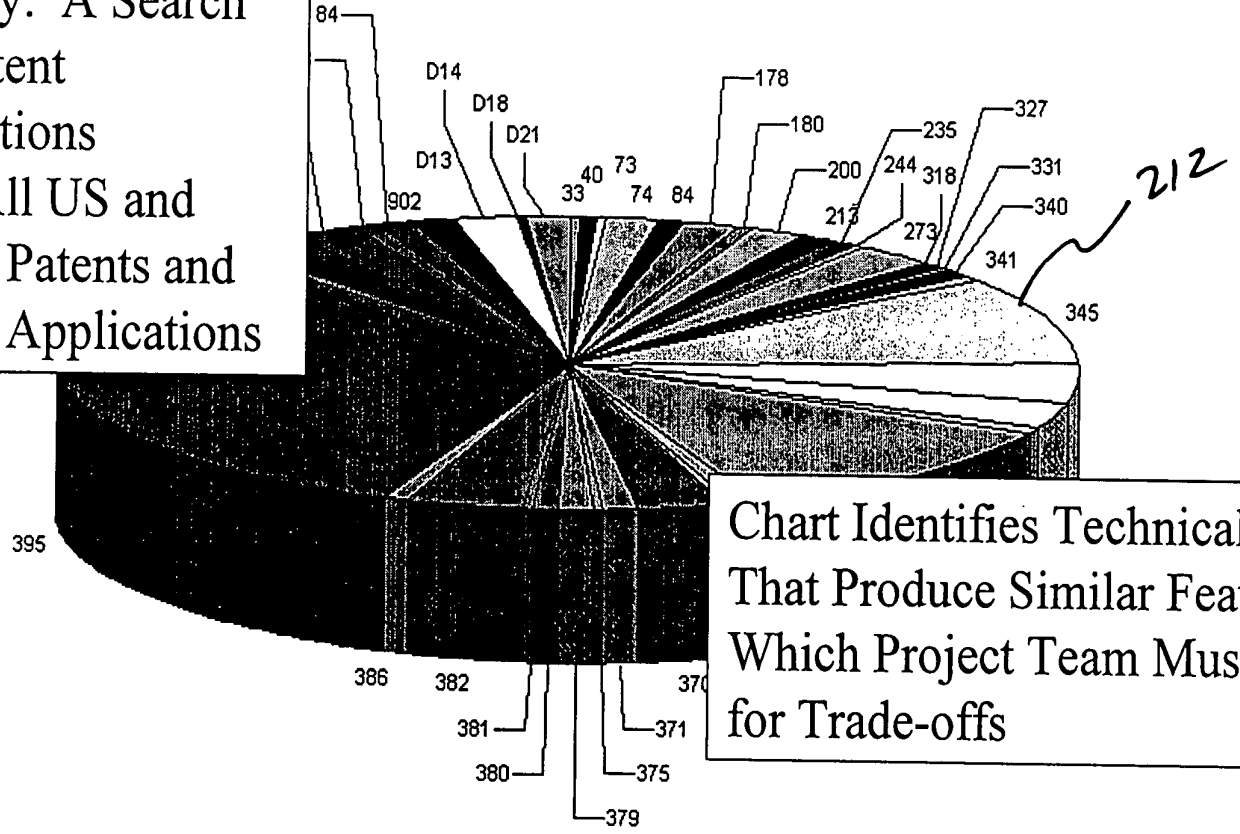


Chart Identifies Technical Fields That Produce Similar Feature Sets Which Project Team Must Evaluate for Trade-offs

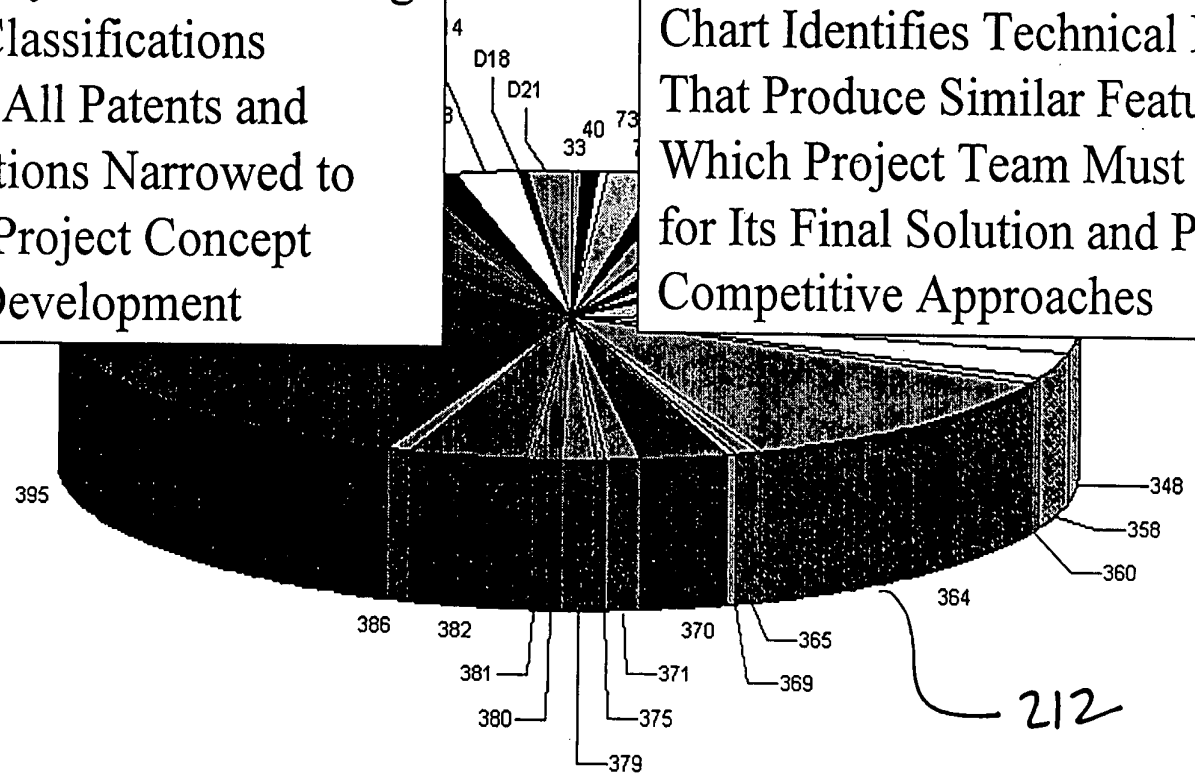
Implication: Defines What Other Technologies Might Be Feasible and Considered by Technical and Market Teams

FIG. 23

Tool #35
Map of similar technologies

Created by: A Search listing Patent Classifications Group: All Patents and Applications Narrowed to Reflect Project Concept Under Development

Chart Identifies Technical Fields That Produce Similar Feature Sets Which Project Team Must Evaluate for Its Final Solution and Possible Competitive Approaches



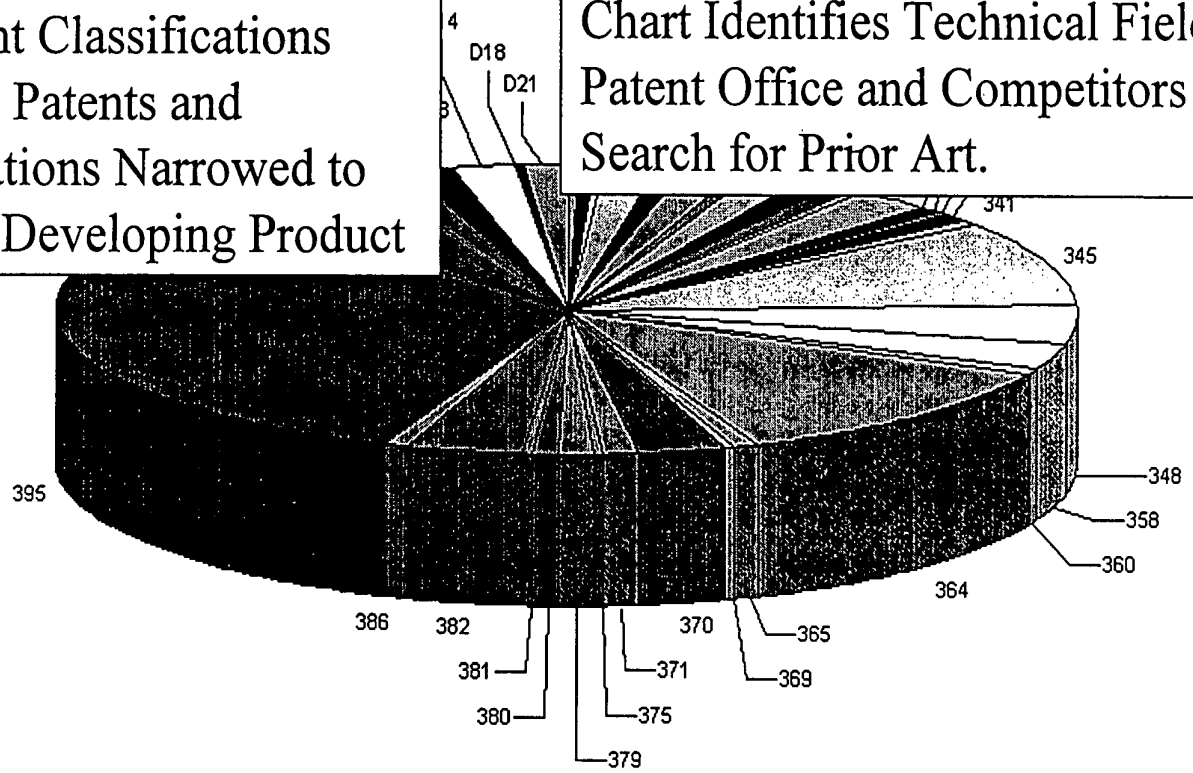
Implication: Project Team Is Aware of the Strengths and Weaknesses of Their and Possible Competitive Approaches

FIG. 24

Tool #44
A chart of similar technologies

Created By: Search Listing of Patent Classifications Group: Patents and Applications Narrowed to Reflect Developing Product

Chart Identifies Technical Fields That Patent Office and Competitors Will Search for Prior Art.



Implication: Analysis Allows Stronger Application to Be Submitted, Increasing Probability of an Earlier, Successful Patent Prosecution.

FIG. 25

Tool #14
A Chart of related markets

Created By: a Search Listing SIC Codes Group: All US and Europe Patents and European Applications

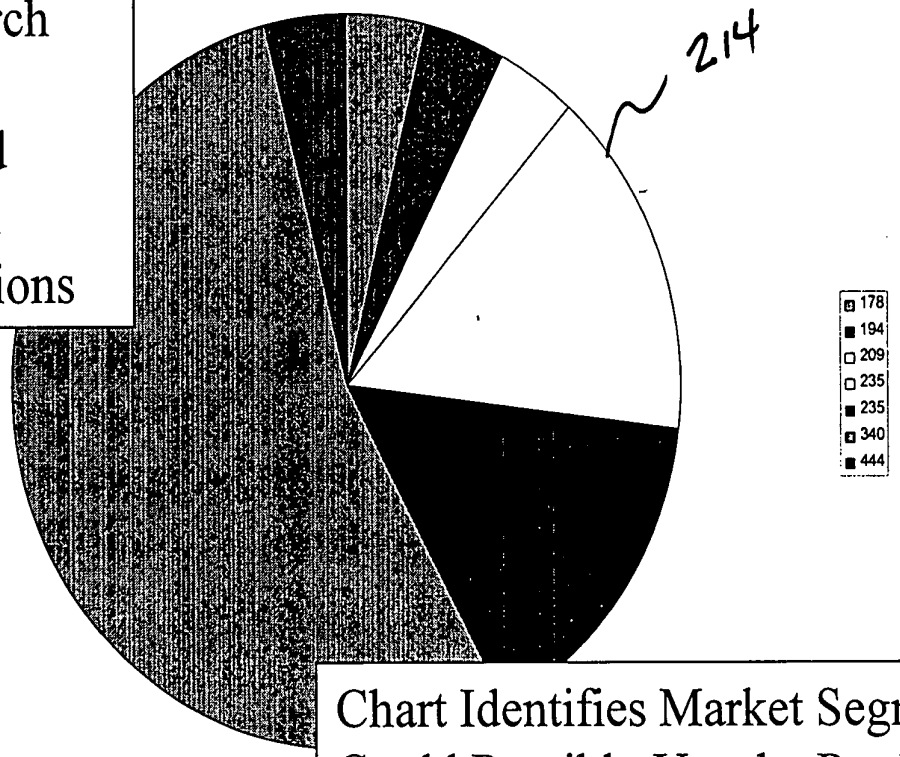


Chart Identifies Market Segments That Could Possibly Use the Product or Service

Implication: Project Team Finds Other Markets Which Should Be Assessed by Team Members

FIG. 26

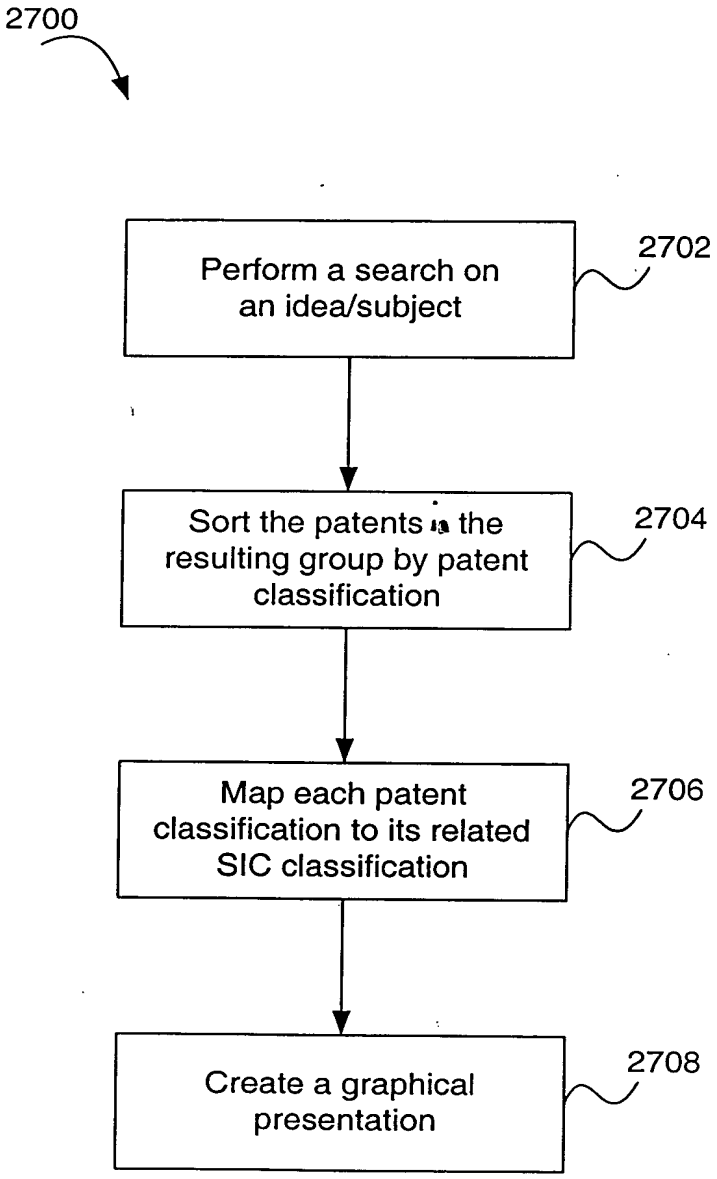

2700
Perform a search on an idea/subject
2702
Sort the patents in the resulting group by patent classification
2704
Map each patent classification to its related SIC classification
2706
Create a graphical presentation
2708

FIG. 27

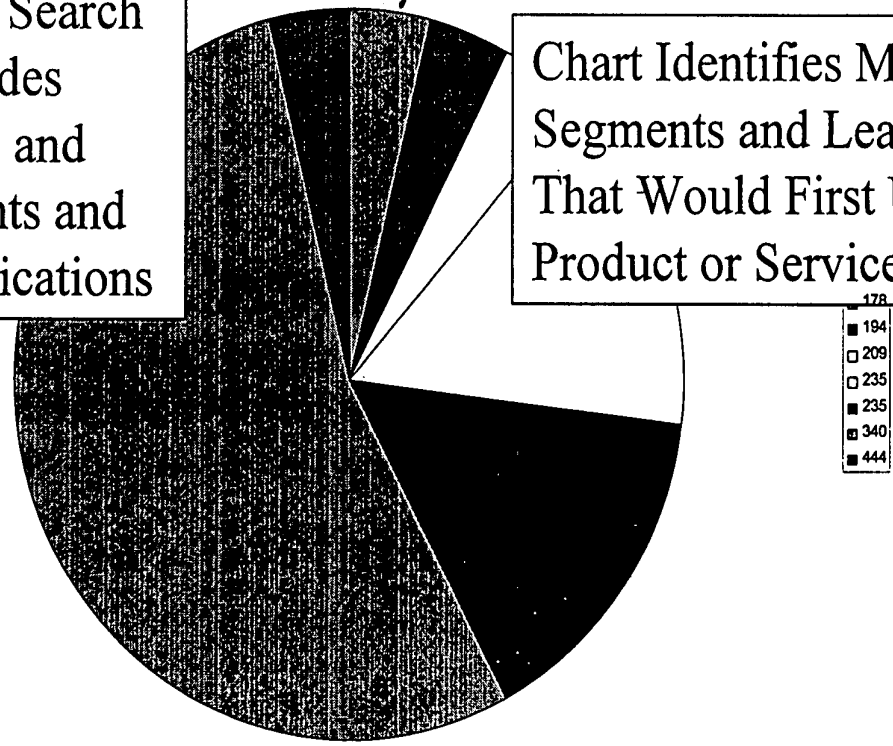
Tool #25

A Chart of Related Markets

214

Created By: A Search Listing SIC Codes Group: All US and European Patents and European Applications

Chart Identifies Market Segments and Lead Customers That Would First Use the Product or Service



Implication: Project Team Finds What Markets In Which To Check for Lead Customers To Use Product or Service

FIG. 28

Tool #36
A Chart of related markets

Created By: A Search Listing of SIC Codes Group: All Patents and Applications Narrowed to Reflect Project Concept Under Development

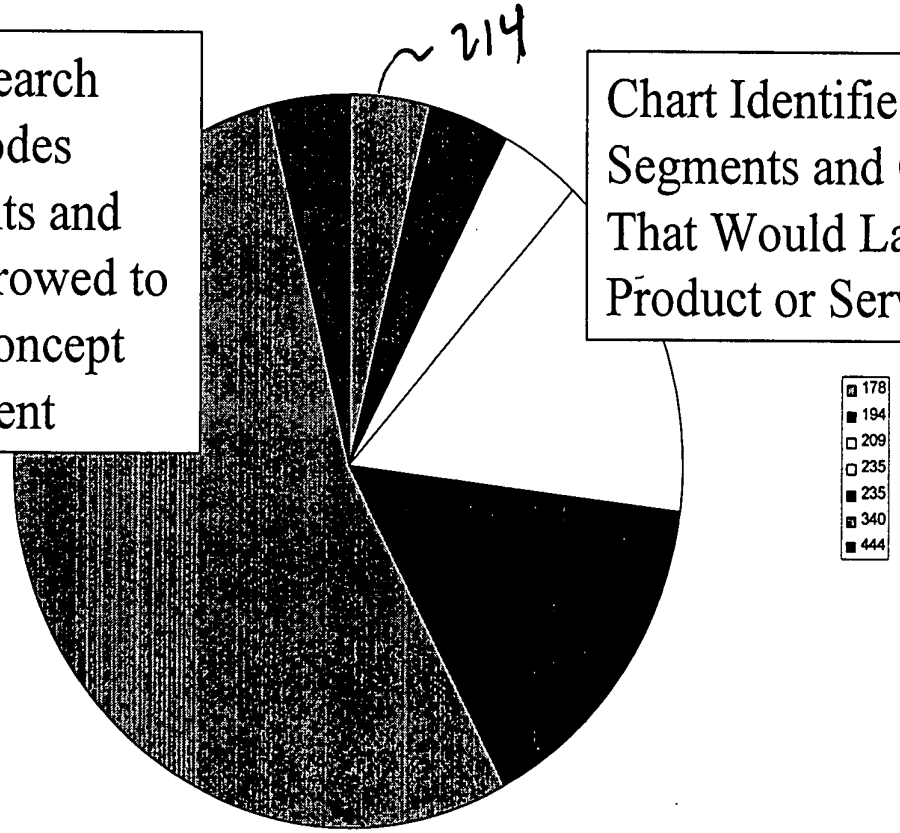


Chart Identifies Market Segments and Customers That Would Later Use the Product or Service

Implication: Project Team Knows What Markets Are Targets for Sales Growth After Commercialization of Initial Product

FIG. 29

Tool #5

Patent Activity Chart

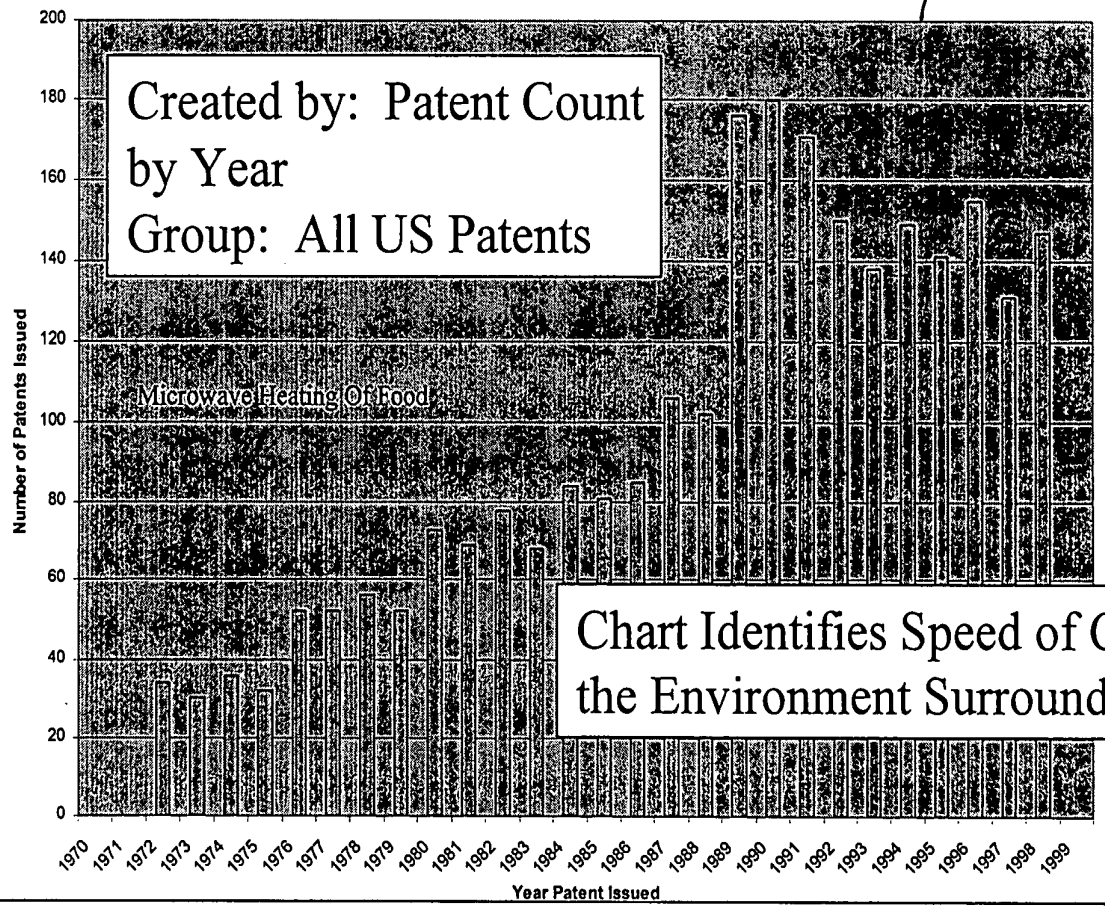


Chart Identifies Speed of Change in the Environment Surrounding the Idea

Implication: Inventor Should Time His/her Efforts To Match the General Activity in the Area of the Idea

FIG. 30

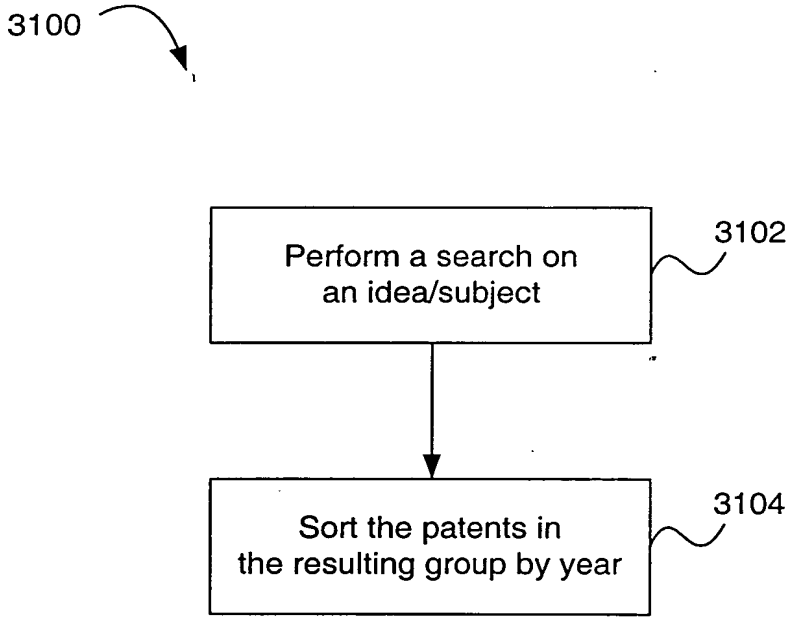

3100
Perform a search on an idea/subject
3102
Sort the patents in the resulting group by year
3104

FIG. 31

Tool #15

Recent Patent Activity Chart

Assignee - Patent Count by Year Graph for Microwave Heating of Food After 1992

Created by: Patent Count by Assignee by Year
Group: All Patents

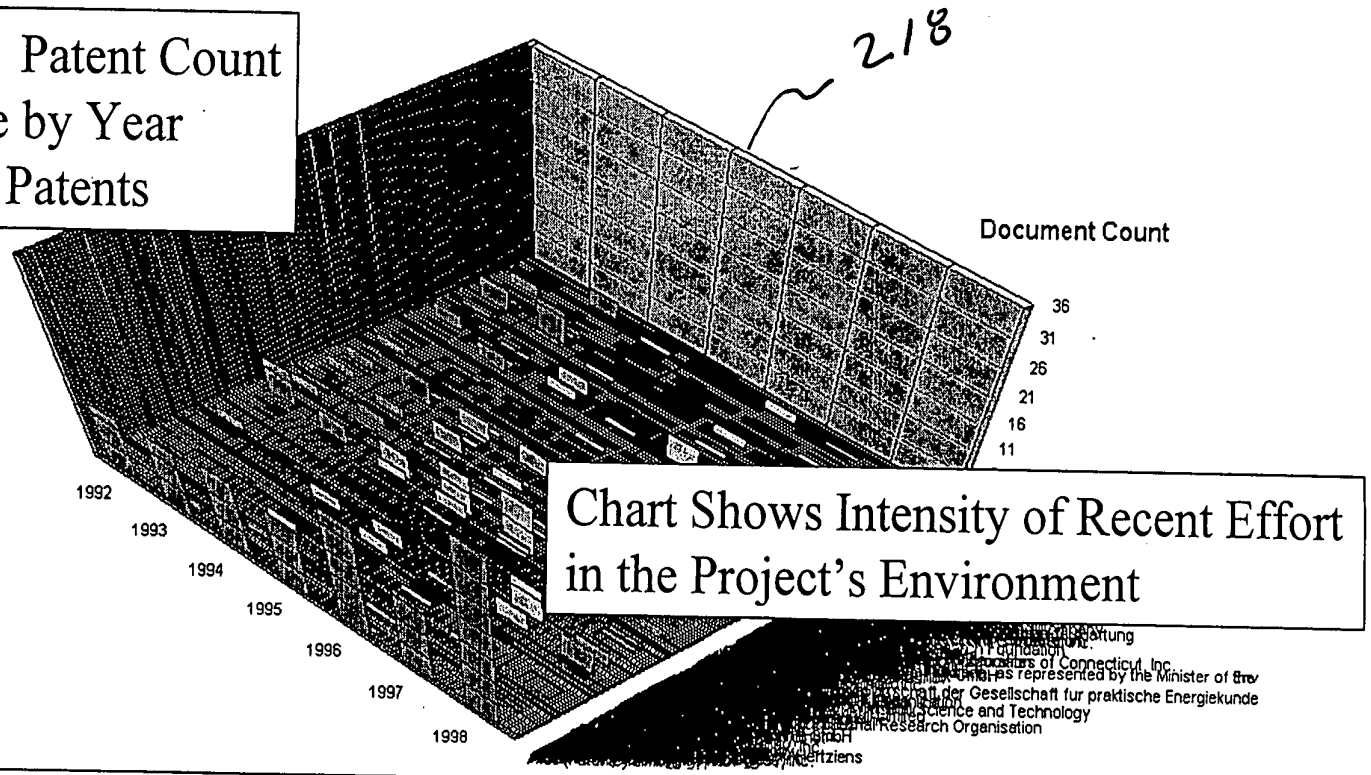


Chart Shows Intensity of Recent Effort in the Project's Environment

Implication: If Heavy Activity, the Project Team Should Consider If New Product Is Distinctive Enough to Ensure Commercial Success

FIG. 32

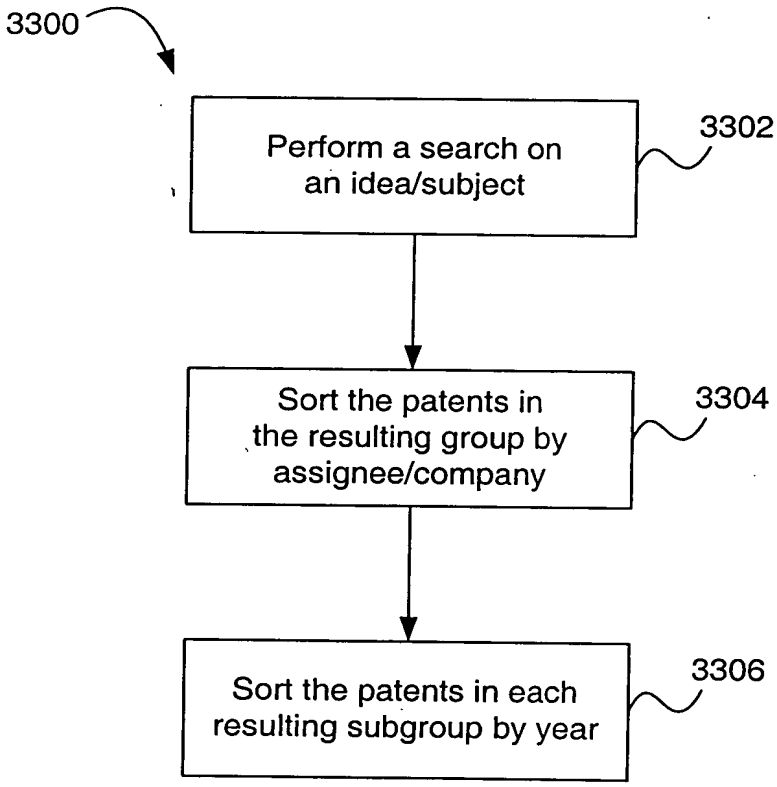

3300
Perform a search on an idea/subject
3302
Sort the patents in the resulting group by assignee/company
3304
Sort the patents in each resulting subgroup by year
3306

FIG. 33

Tool #26

Recent Patent Activity Chart

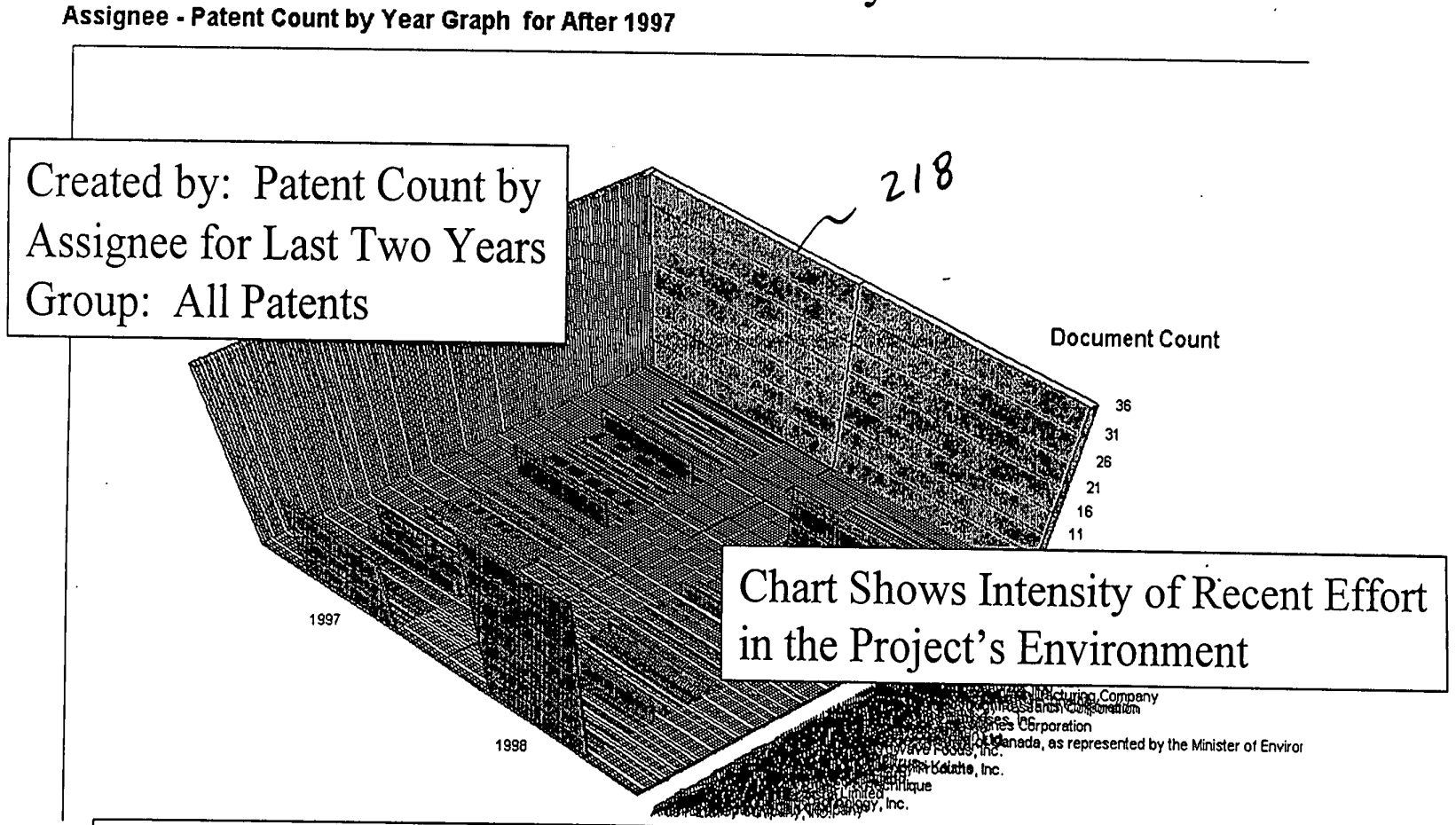


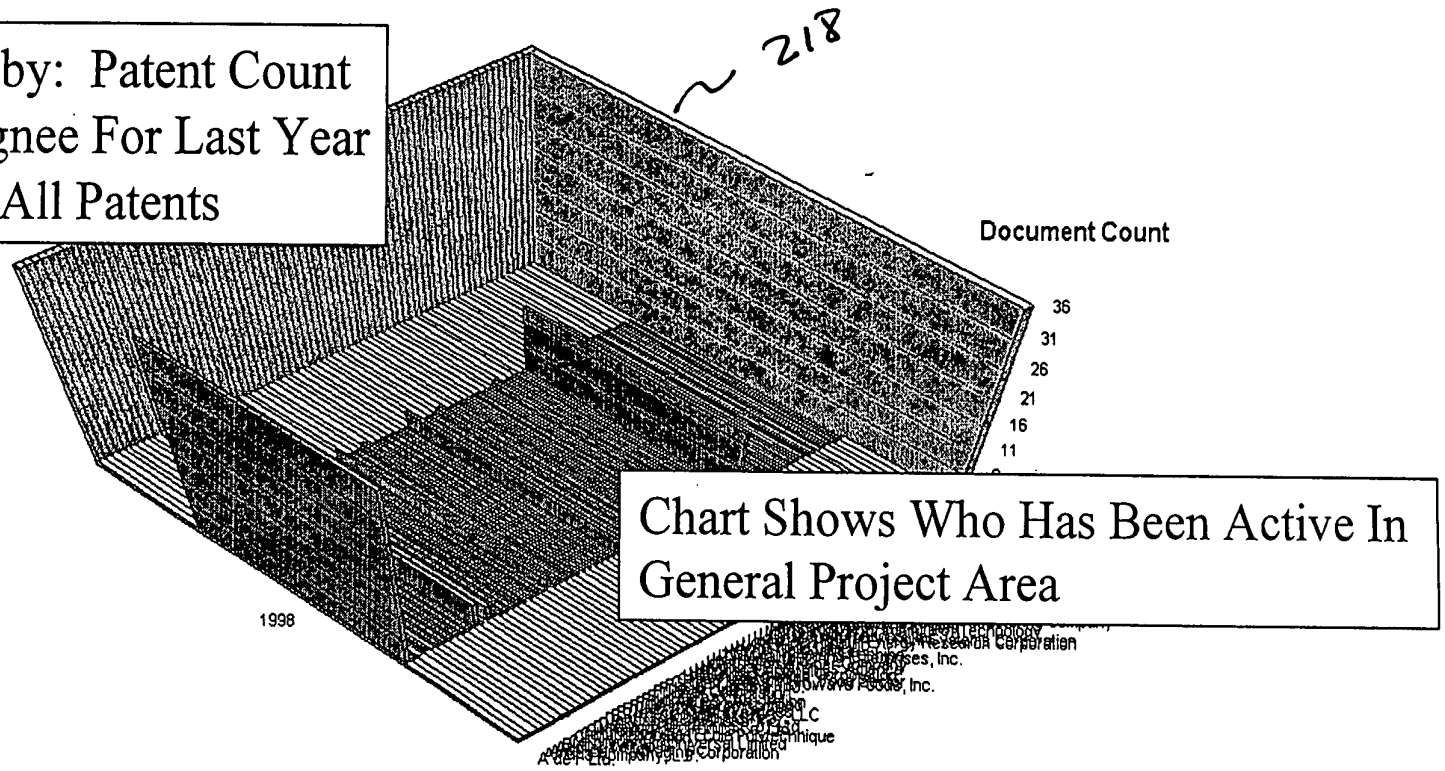
FIG. 34

Tool #37

Recent Patent Activity Chart

Assignee - Patent Count by Year Graph for AFter 1998

Created by: Patent Count by Assignee For Last Year Group: All Patents



Implication: Project Team and Competitive Intelligence Knows Which Company's to Check-out For Ongoing Activity

FIG. 35

Tool #45

Recent Patent Activity Chart

Assignee - Patent Count by Year Graph for AFter 1998

Created by: Patent Count by Assignee by Year
Group: All Patents

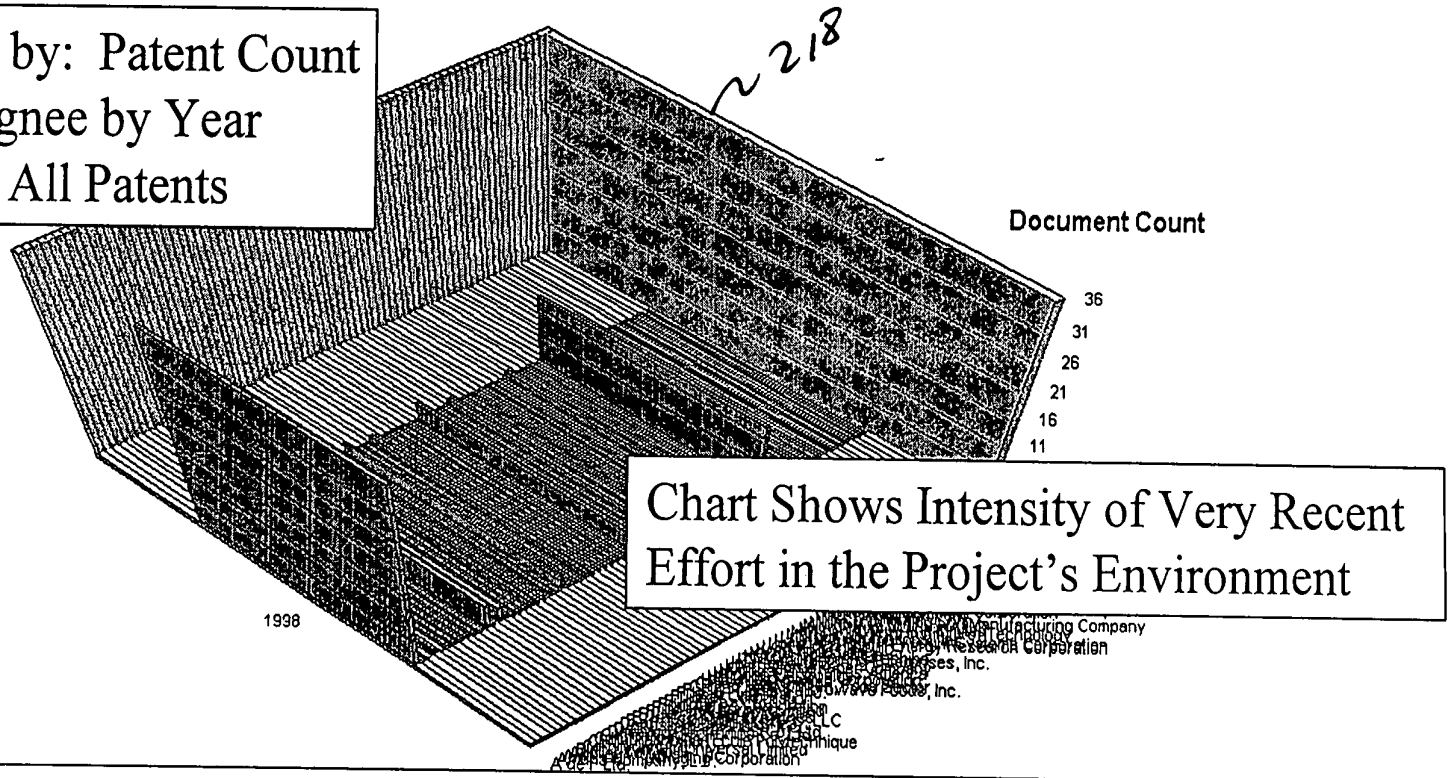


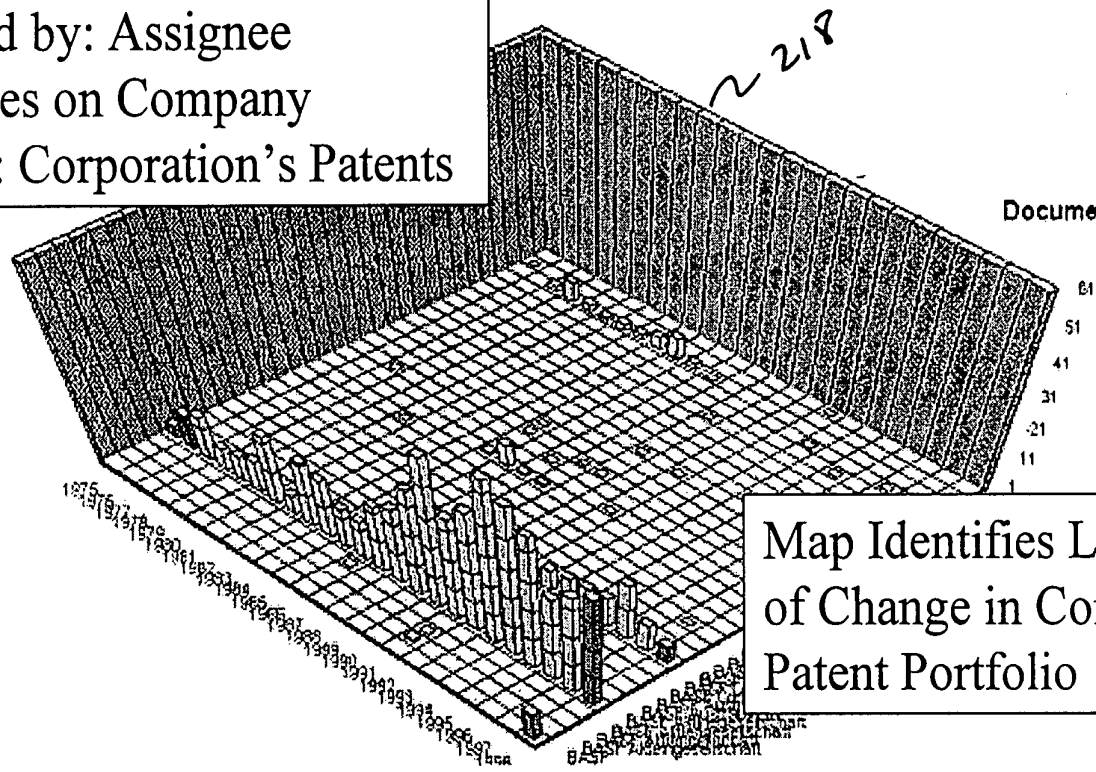
Chart Shows Intensity of Very Recent Effort in the Project's Environment

Implication: Project Team Knows Competitors to Watch Closely

FIG. 36

Tool #53
Map of Company Patent Activity

Created by: Assignee
Searches on Company
Group: Corporation's Patents



Map Identifies Level and Rate of Change in Company's Patent Portfolio

Implication: Map Provides Management With a Visual Image of Patent Activity

FIG. 37

Tool #16

Recent Patent Application Chart

Assignee - Patent Application Count by Year Graph for Microwave Heating of Food Applications after 1995

Created by: Application Count
by Assignee For Last Four Years
Group: All European Applications

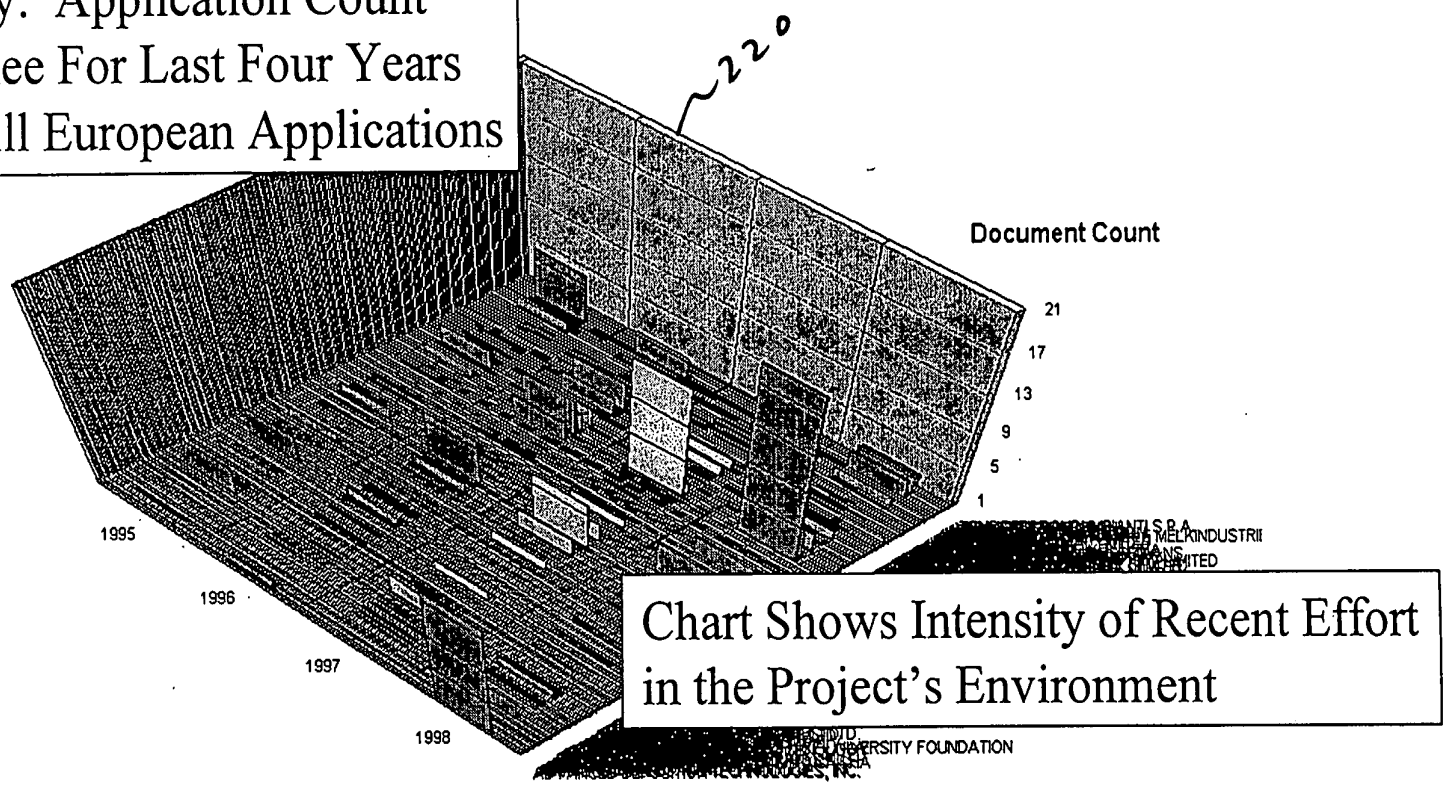


Chart Shows Intensity of Recent Effort in the Project's Environment

Implication: Project Team Knows Potential Partners and Competitors to Preliminarily Assess

FIG. 38

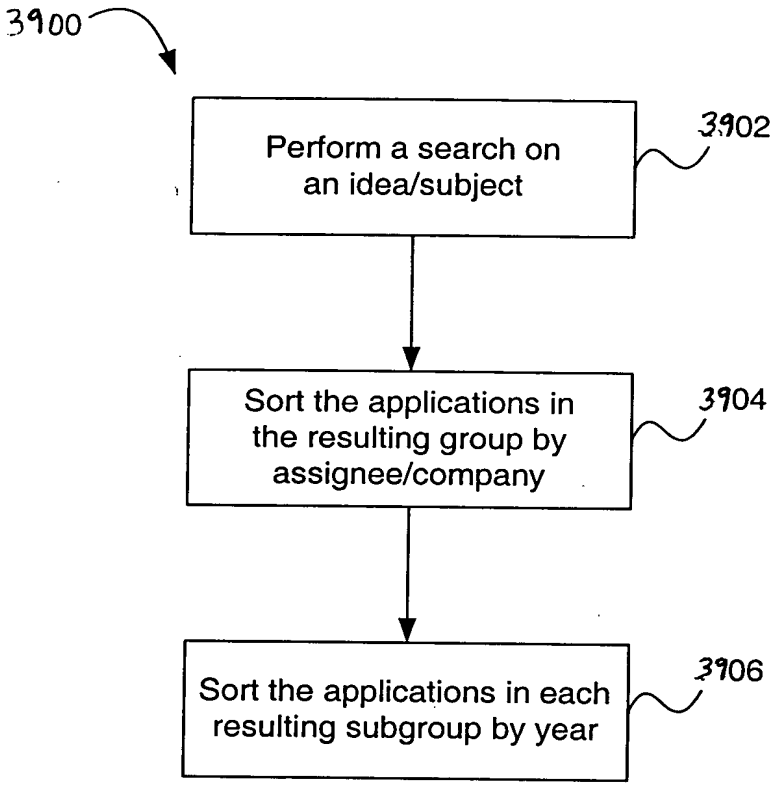

3900
Perform a search on an idea/subject
3902
Sort the applications in the resulting group by assignee/company
3904
Sort the applications in each resulting subgroup by year
3906

FIG. 39

Tool #27

Recent Patent Application Chart

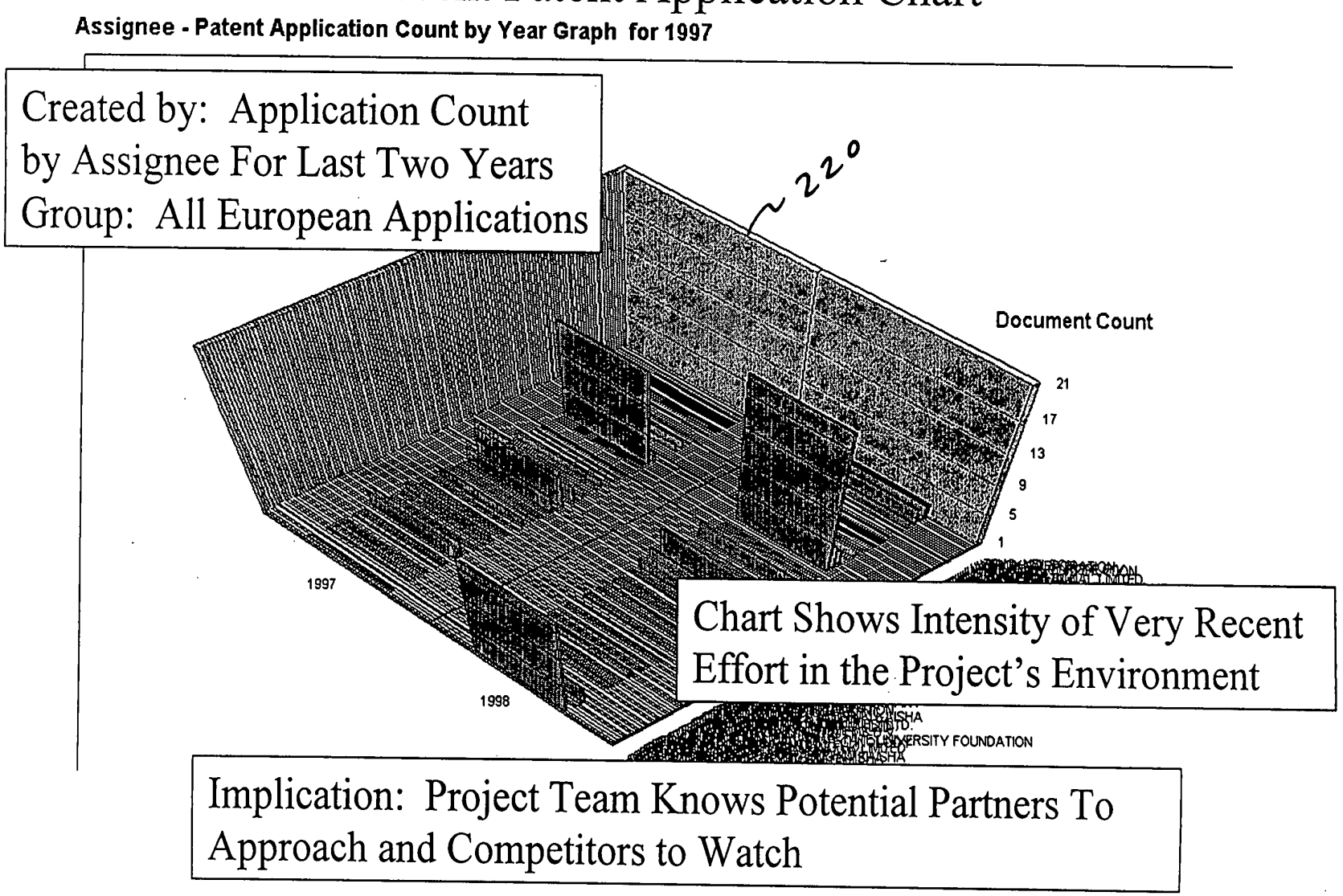


FIG. 40

Tool #38

Recent Patent Application Chart

Assignee - Patent Application Count by Year Graph for 1998

Created by: Application Count
by Assignee For Last Year
Group: All European Applications

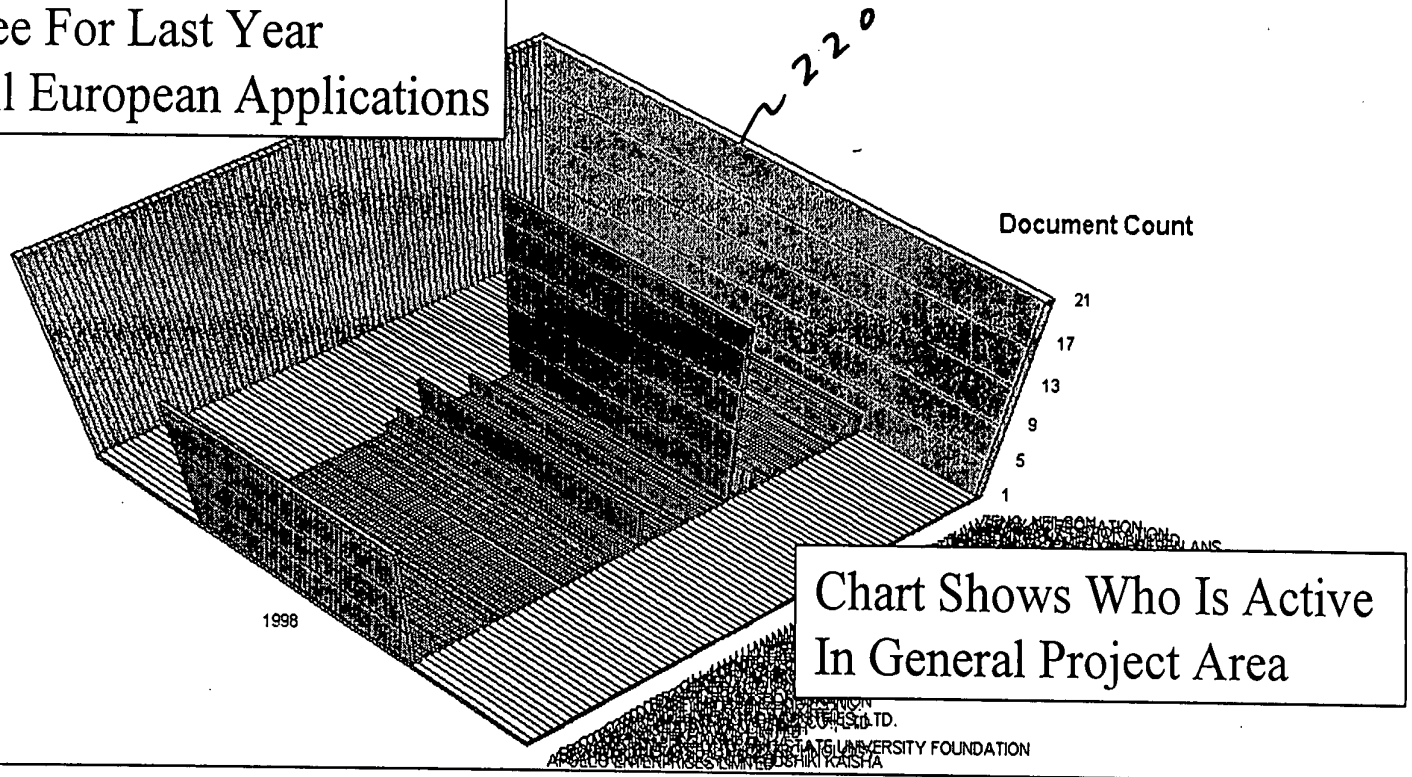


Chart Shows Who Is Active
In General Project Area

Implication: Project Team and Competitive Intelligence
Knows Which Competitors to Watch

FIG. 41

Tool #46

Recent Patent Application Chart

Assignee - Patent Application Count by Year Graph for 1998

Created by: Application Count
by Assignee For Last Year
Group: All European Applications

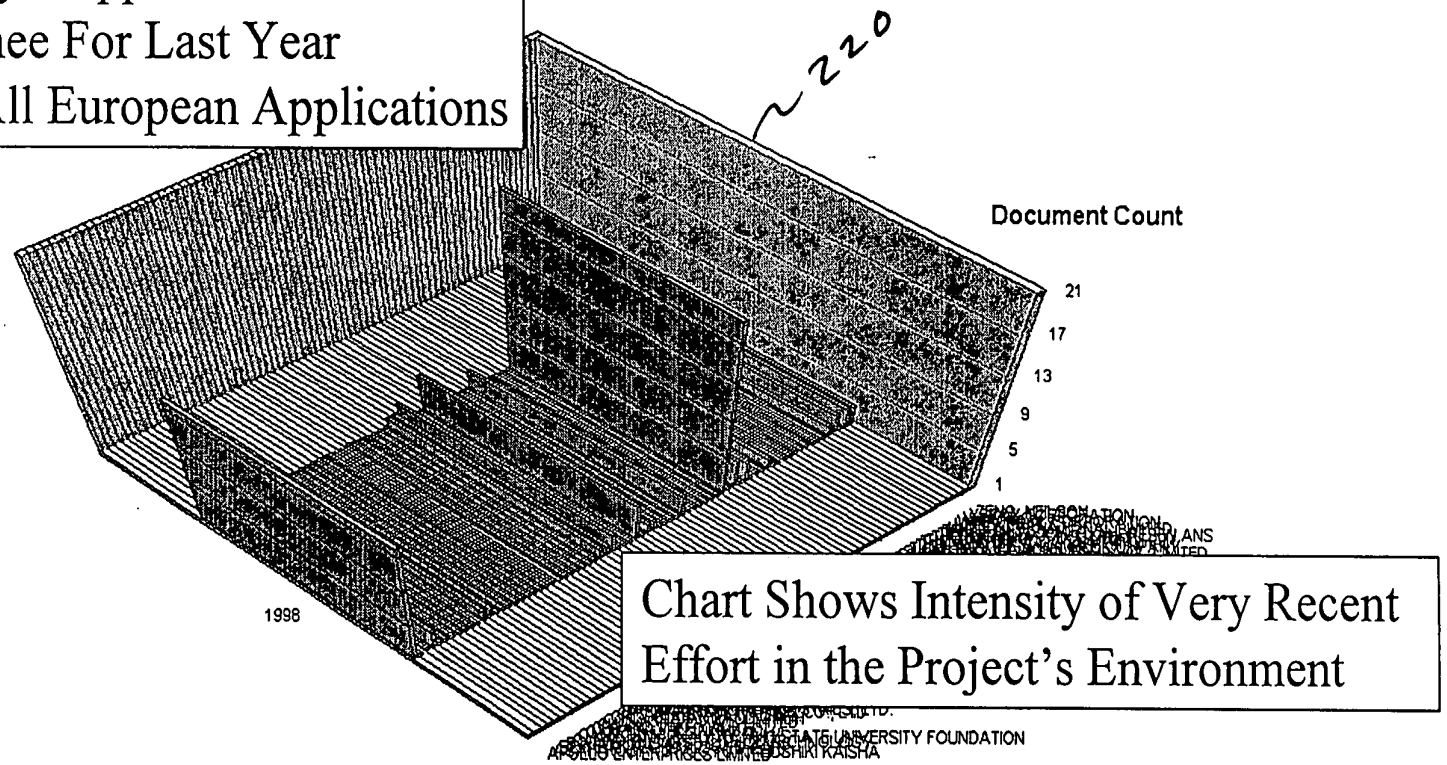


Chart Shows Intensity of Very Recent Effort in the Project's Environment

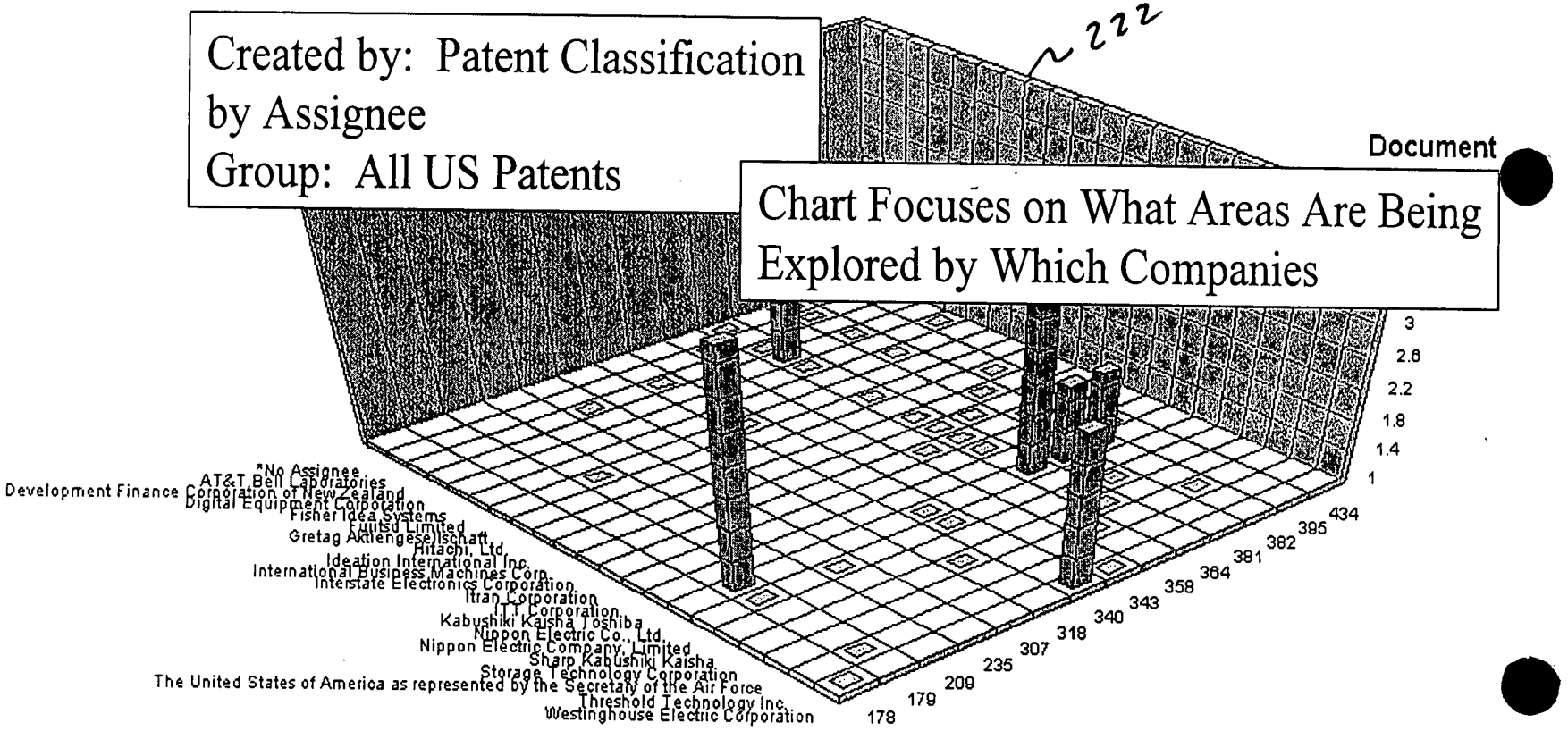
Implication: Project Team Knows Potential Partners and Competitors to Watch

FIG. 42

Tool #6
Chart Narrowing Areas to Explore

Created by: Patent Classification by Assignee
Group: All US Patents

Chart Focuses on What Areas Are Being Explored by Which Companies



Implication: Inventor Knows in Which Competitors Major Efforts Exist. Possible Partners Are Likewise Identified

FIG. 43

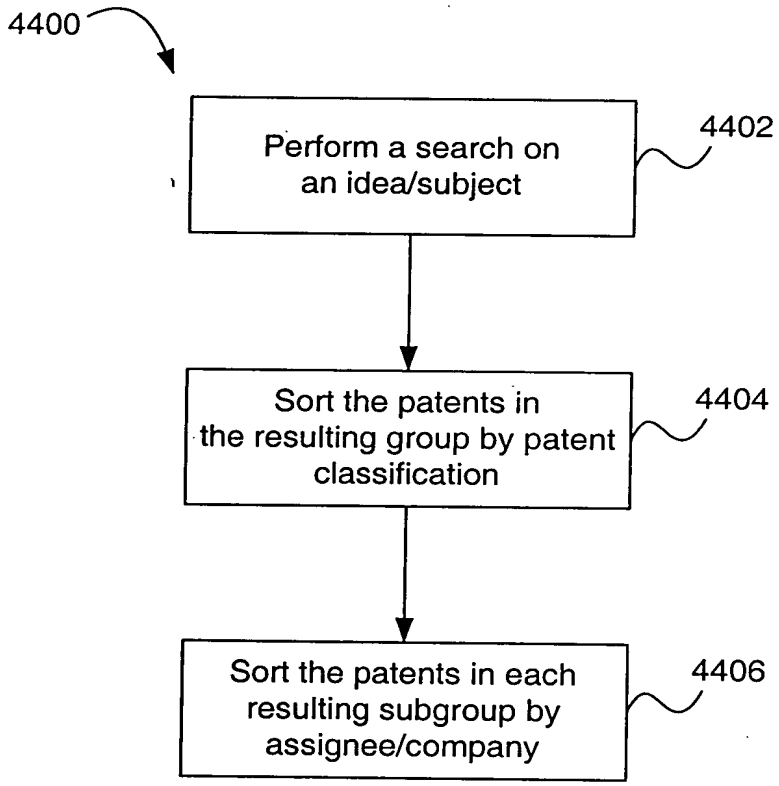

4400
Perform a search on an idea/subject
4402
Sort the patents in the resulting group by patent classification
4404
Sort the patents in each resulting subgroup by assignee/company
4406

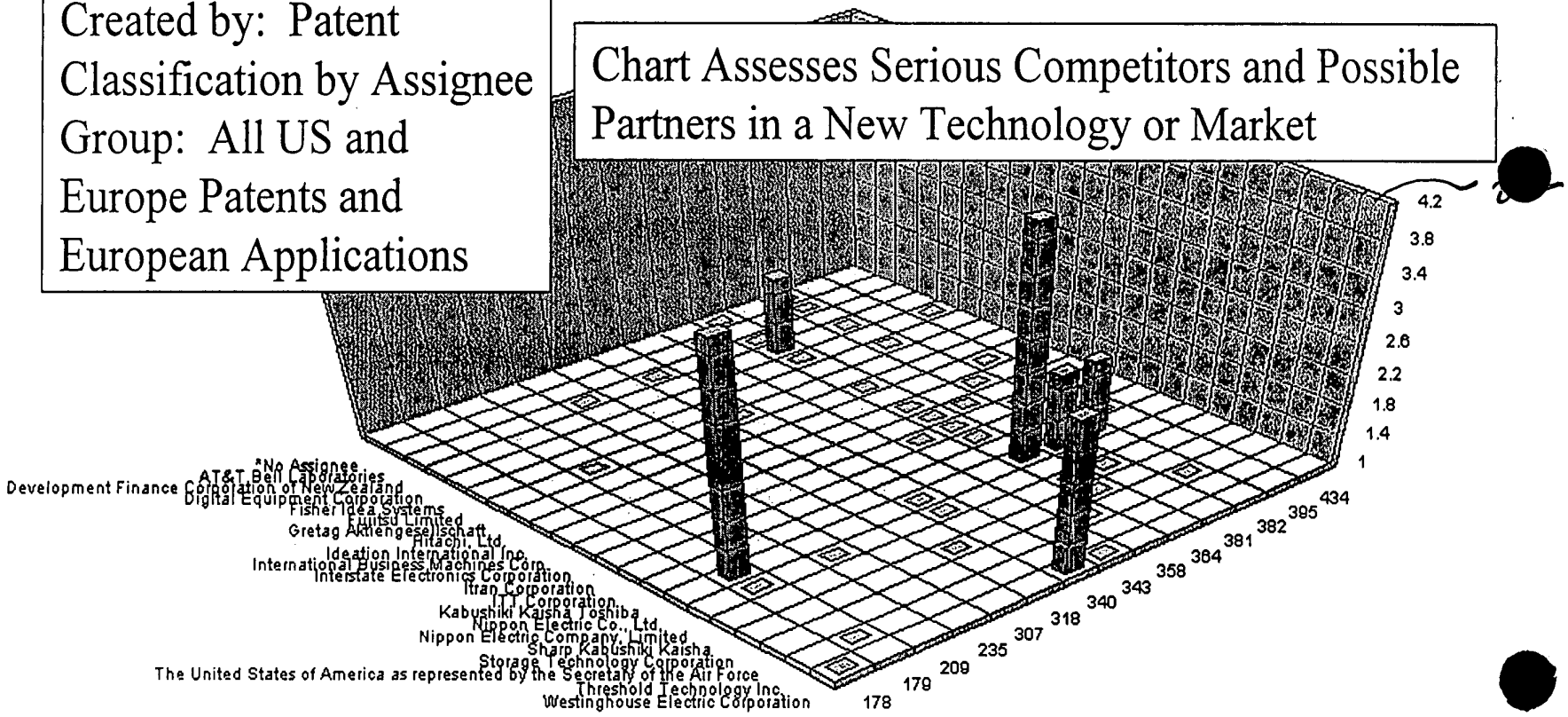
FIG. 44

Tool #17

A Chart of Other Company's Work Related to the Project Goal

Created by: Patent Classification by Assignee Group: All US and Europe Patents and European Applications

Chart Assesses Serious Competitors and Possible Partners in a New Technology or Market



Implication: Which Areas and What Companies to Track During Project

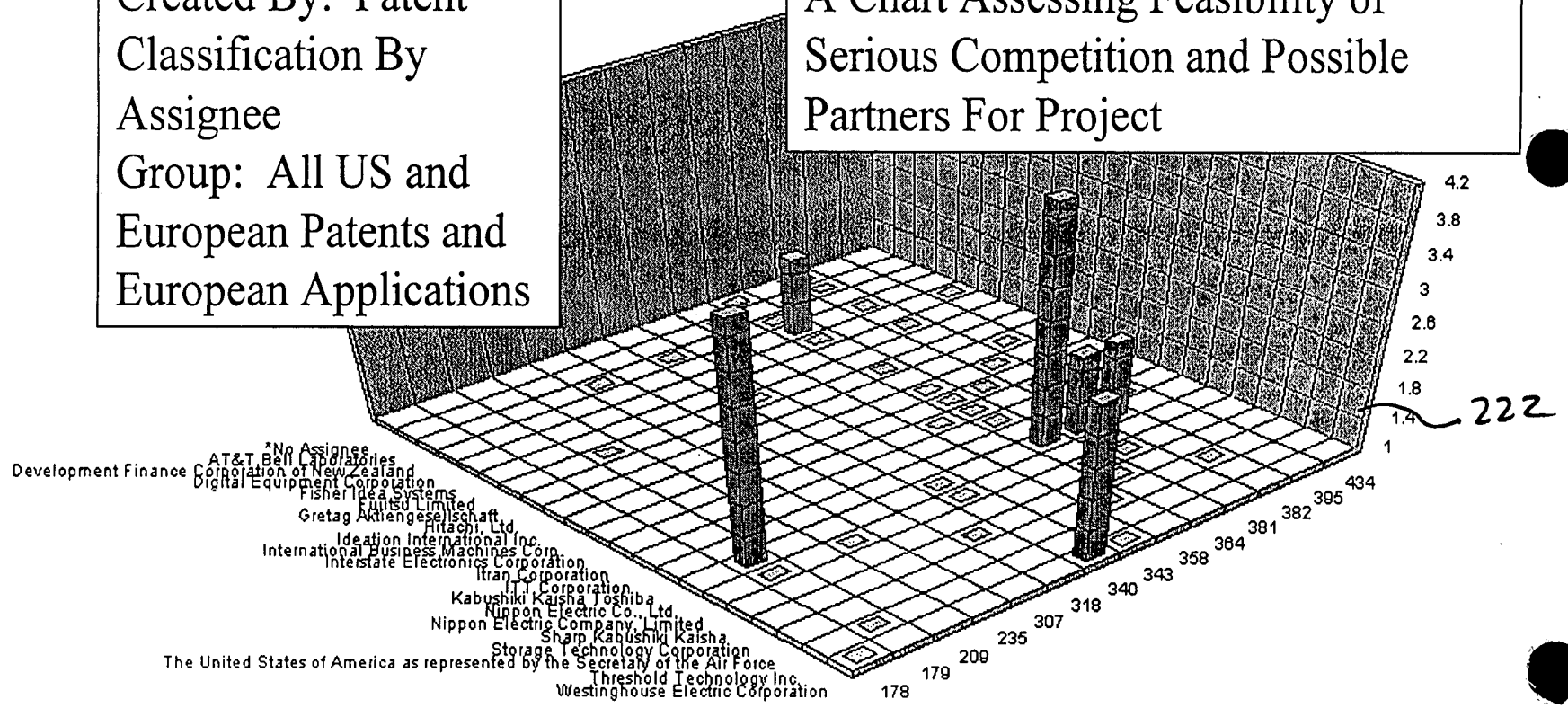
FIG. 45

Tool #28

A Chart Narrowing Areas to Explore

Created By: Patent Classification By Assignee
Group: All US and European Patents and European Applications

A Chart Assessing Feasibility of Serious Competition and Possible Partners For Project



Implications: The Project Team Knows Which Companies to Approach and Avoid For Each Technical Area

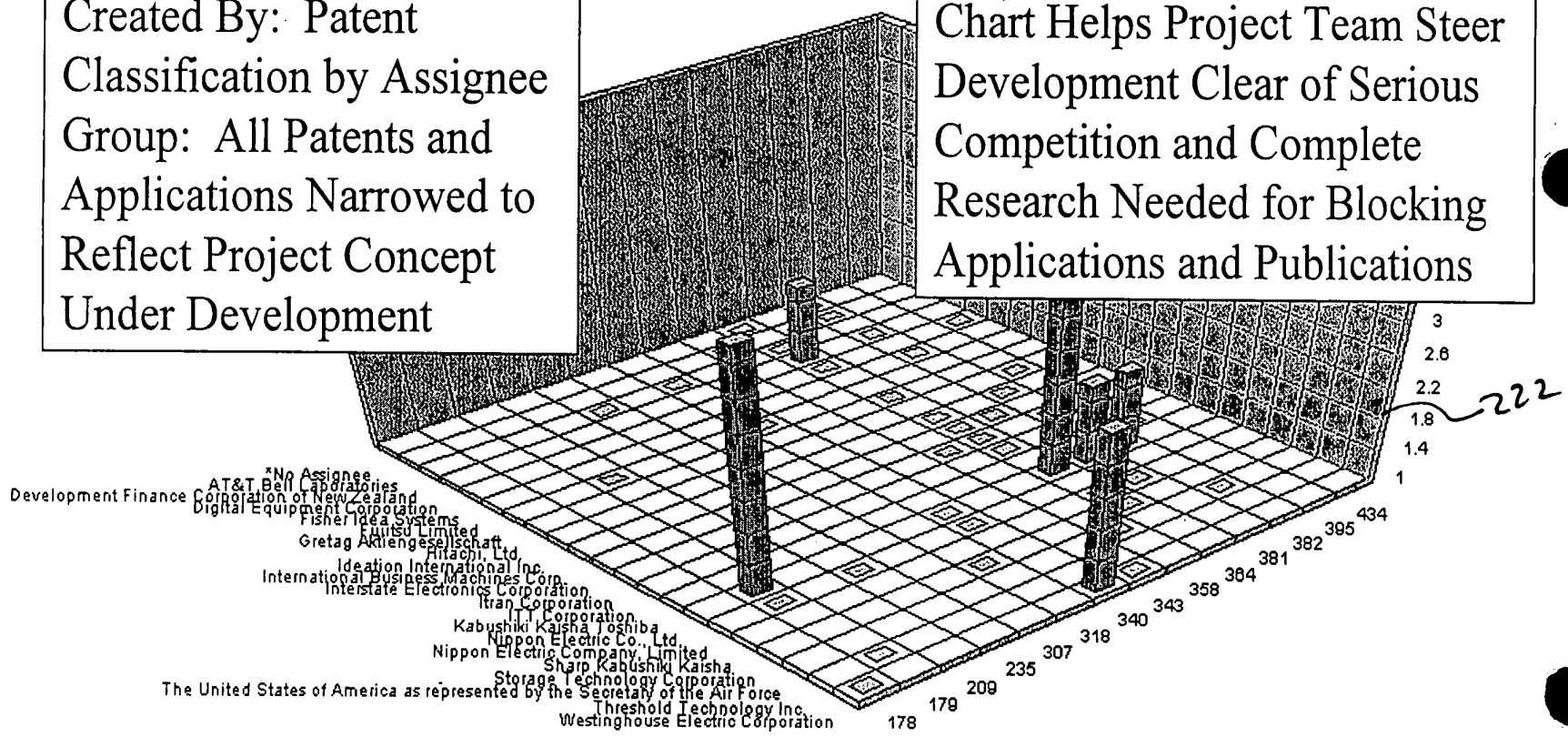
FIG. 46

Tool #39

A Chart Showing Areas to Lock-Up or Lock-Out

Created By: Patent Classification by Assignee Group: All Patents and Applications Narrowed to Reflect Project Concept Under Development

Chart Helps Project Team Steer Development Clear of Serious Competition and Complete Research Needed for Blocking Applications and Publications



Implication: Project Has Appropriate Intellectual Property to Protect Sales Margin

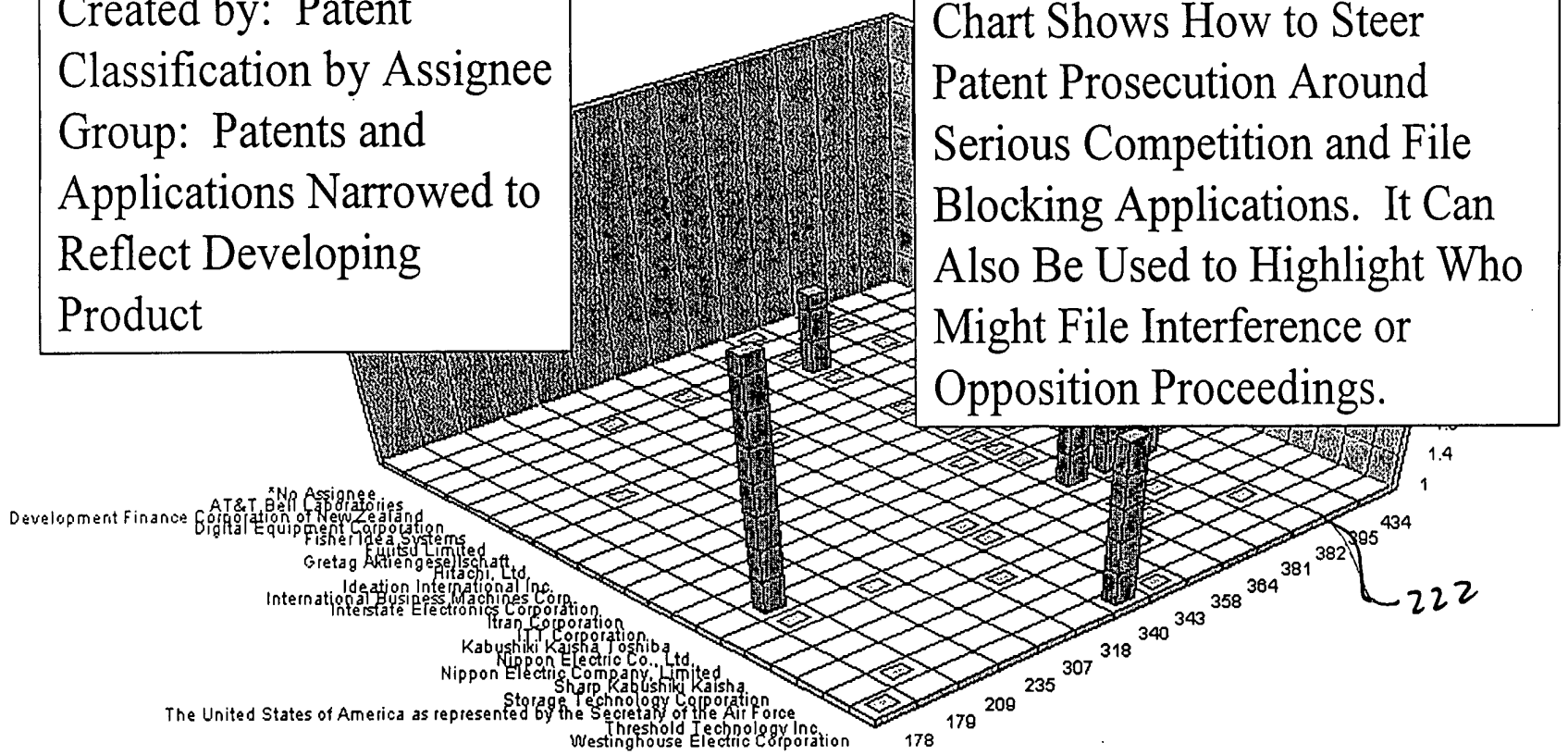
FIG. 47

Tool #47

A Chart Narrowing Areas to Explore

Created by: Patent Classification by Assignee Group: Patents and Applications Narrowed to Reflect Developing Product

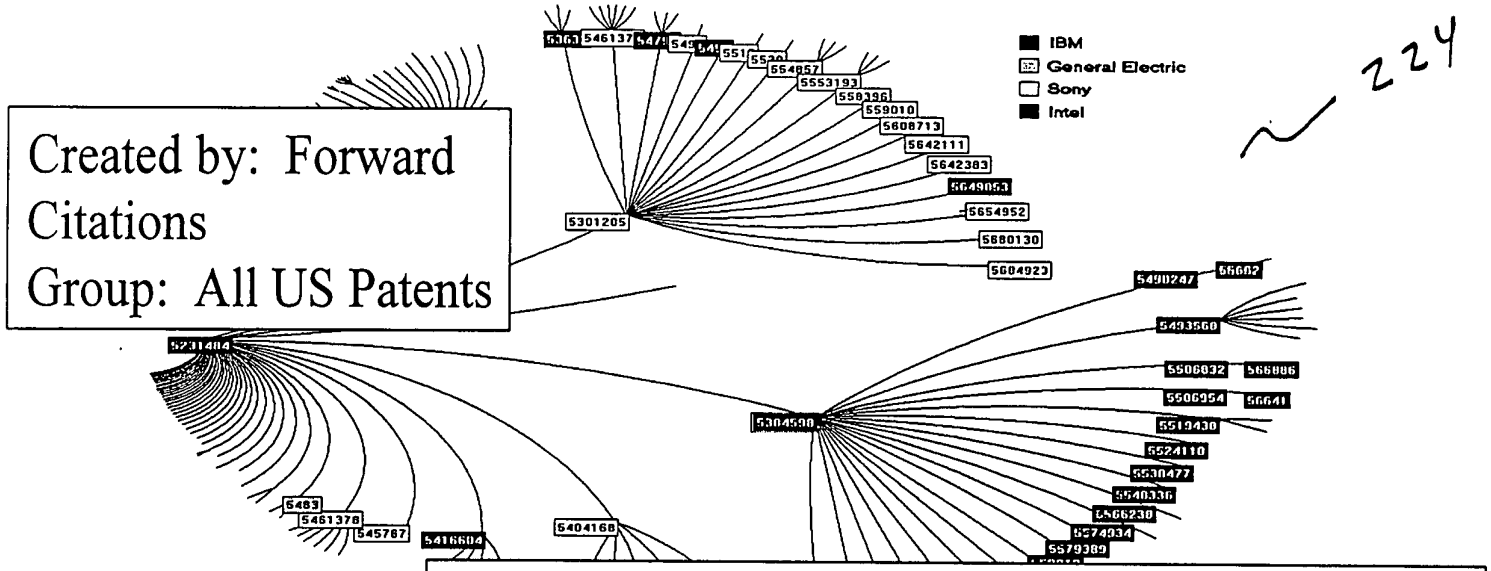
Chart Shows How to Steer Patent Prosecution Around Serious Competition and File Blocking Applications. It Can Also Be Used to Highlight Who Might File Interference or Opposition Proceedings.



Implication: Shows Patent Attorney, Inventors, and Patent Committee Which Areas and What Companies to Watch.

FIG. 48

Tool #7
A Citation Tree Showing Idea's Environment



224

Created by: Forward Citations
Group: All US Patents

Citation Tree Further Focus on Which Areas Are Being Explored by What Companies and Identifies Which Patents Would Be Prior Art for New Idea

Implication: The Inventor Knows How Expansive and Inter-related the Technology Is. This Shows Uniqueness of the Idea and Maturity of the Technology. Inventor Knows Whether or Not to Promote the Idea.

FIG. 49

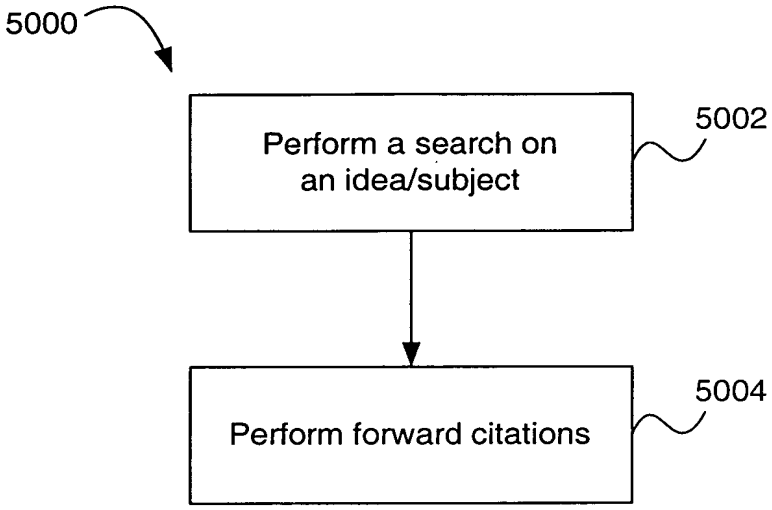
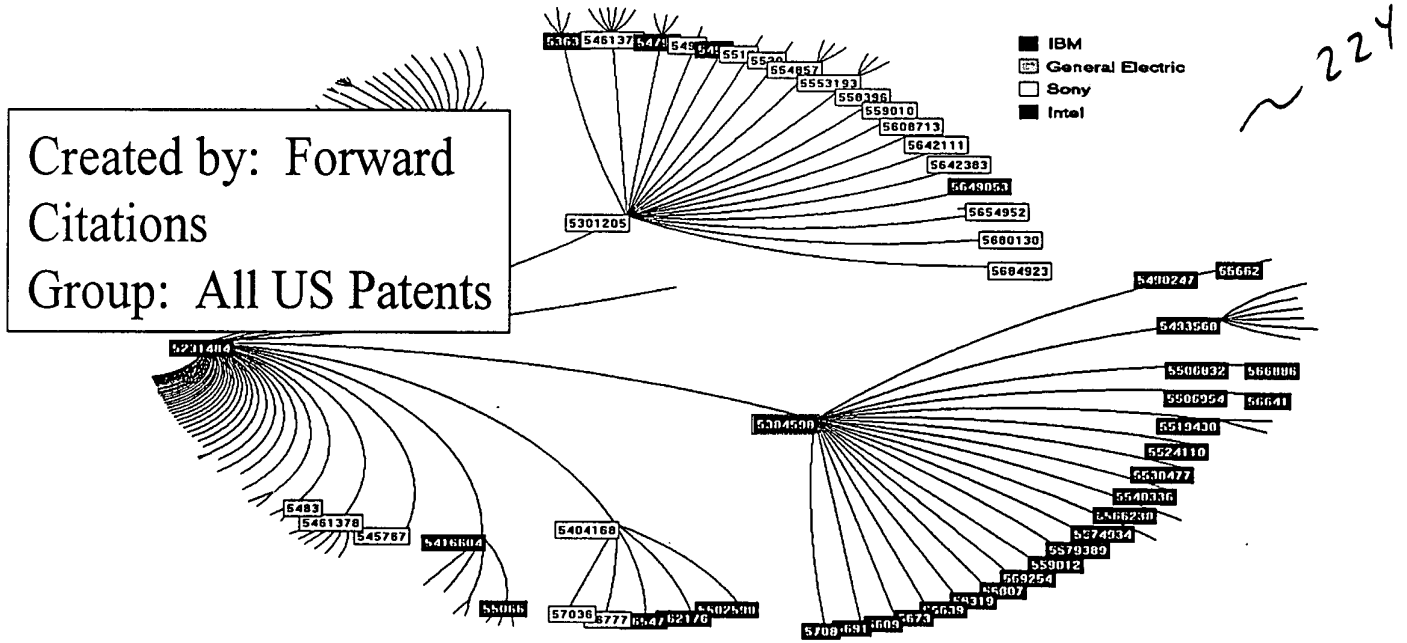

5000
Perform a search on an idea/subject
5002
Perform forward citations
5004

FIG. 50

Tool #18
A Citation Tree Showing Concept's History



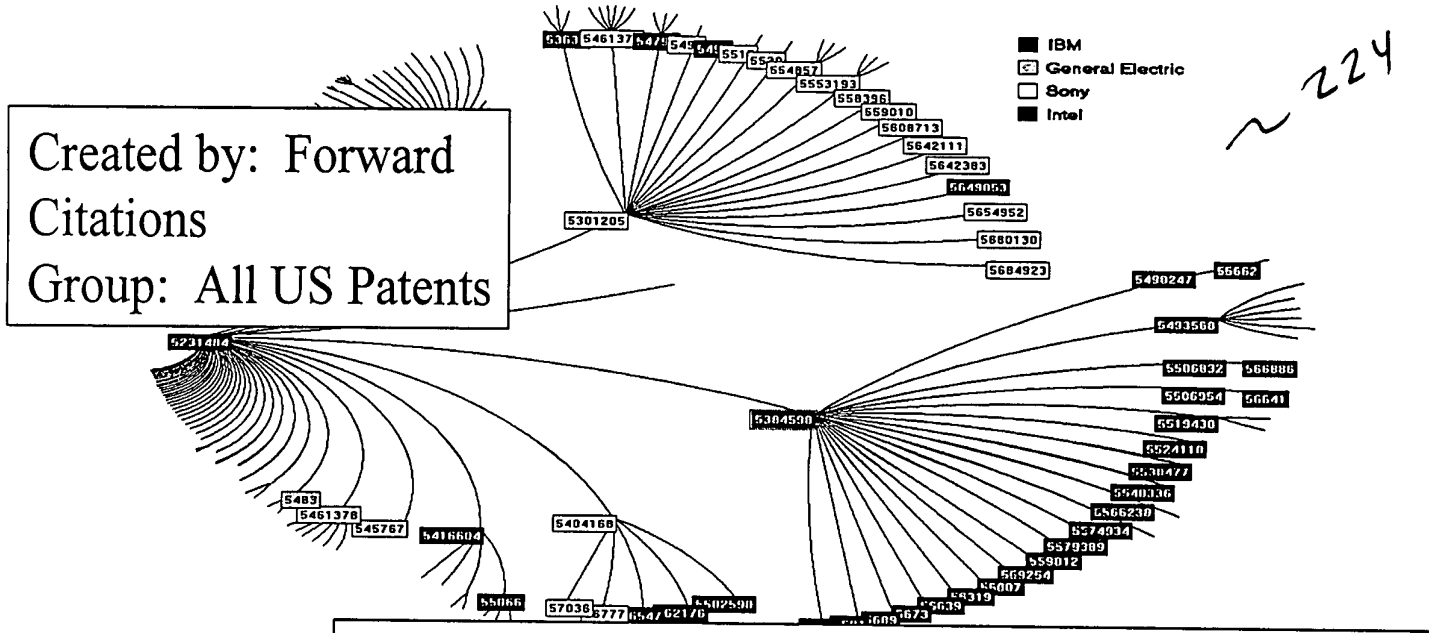
Created by: Forward Citations
Group: All US Patents

Citation Tree Focuses on Other Technical and Market Areas Are Being Explored by What Companies

Implication: The Project Team Knows How Expansive and Inter-related the Technology and Markets Are.

FIG. 51

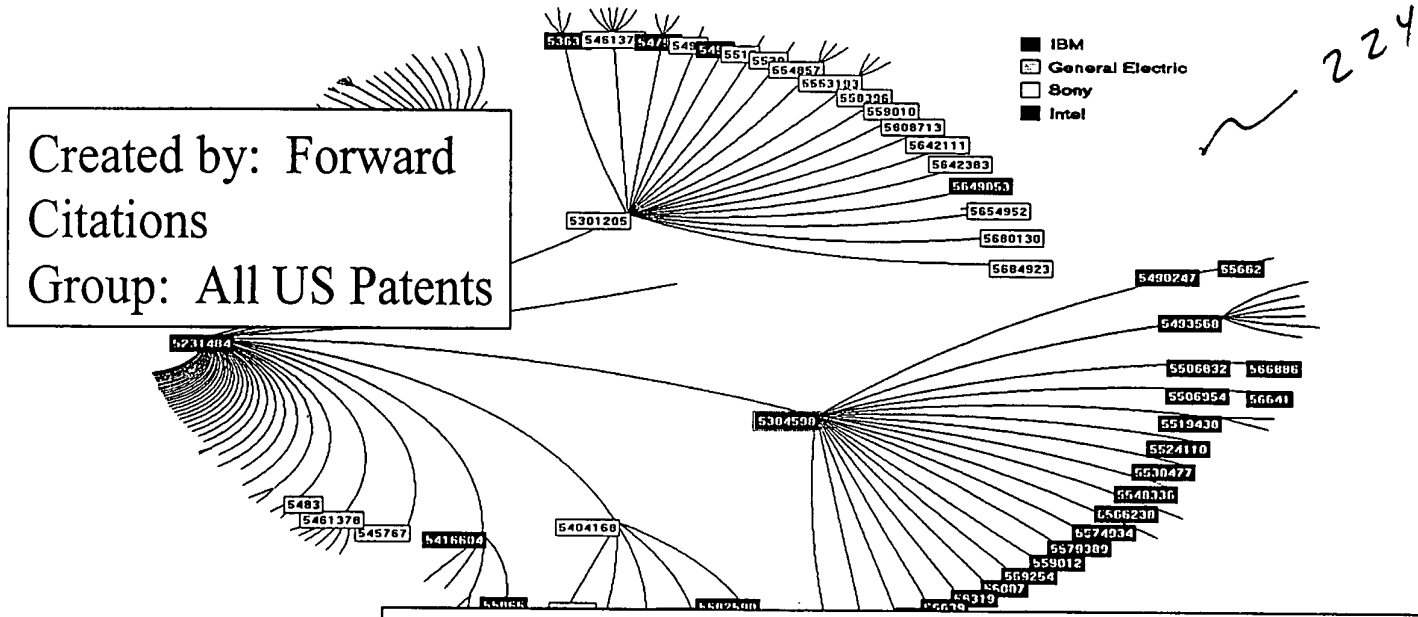
Tool #29
A Citation Tree Showing Project's Prior Art



Implication: The Project Team Works Around Prior Art Problems Early In The Development Process.

FIG. 52

Tool #40
A Citation Tree Showing Project's IP Position

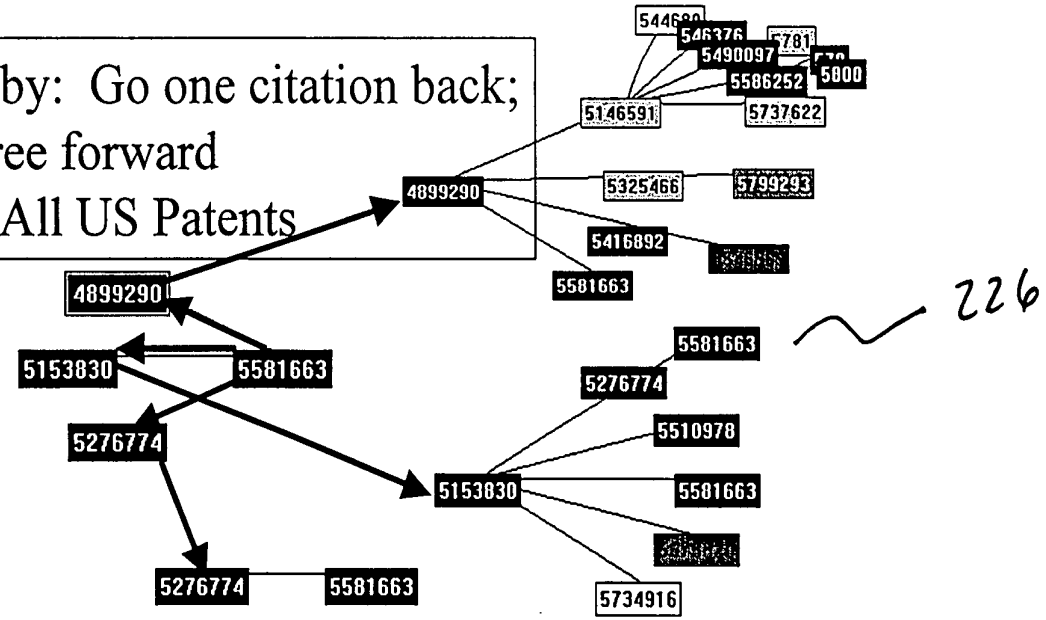


Implication: Project Team Knows Key Prior Art to Acquire During the Development Phase for Freedom to Practice and to Block Competition.

FIG. 53

Tool #8
A Citation Root-tree Showing Idea's Environment

Created by: Go one citation back;
Then three forward
Group: All US Patents



226

The Citation Root-tree Predicts Related Areas That Are Possibly Under Exploration by Other Companies

Implication: The Inventor Can Promote His Idea As Distinct From Other On-going Work

FIG. 5A

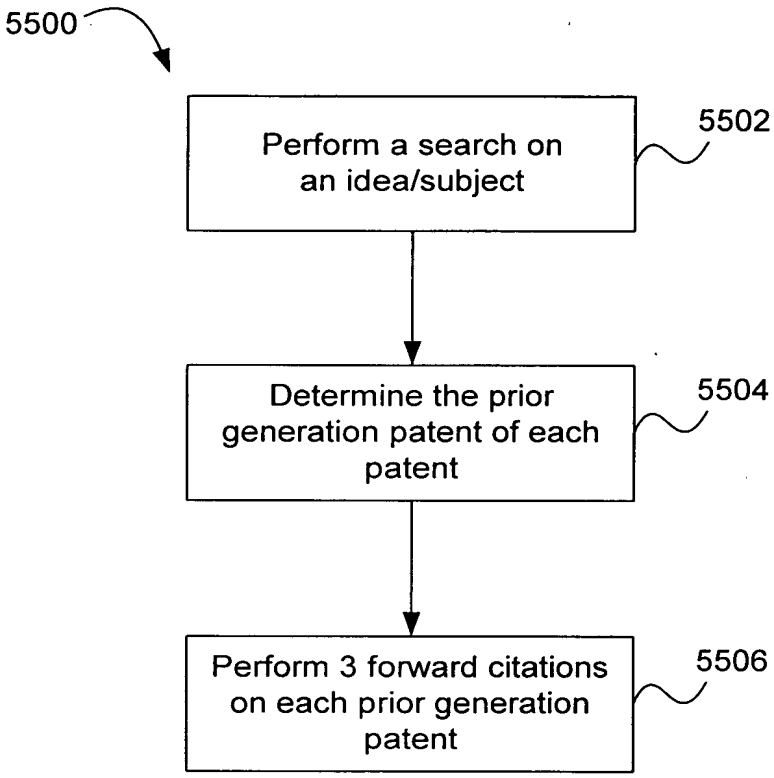
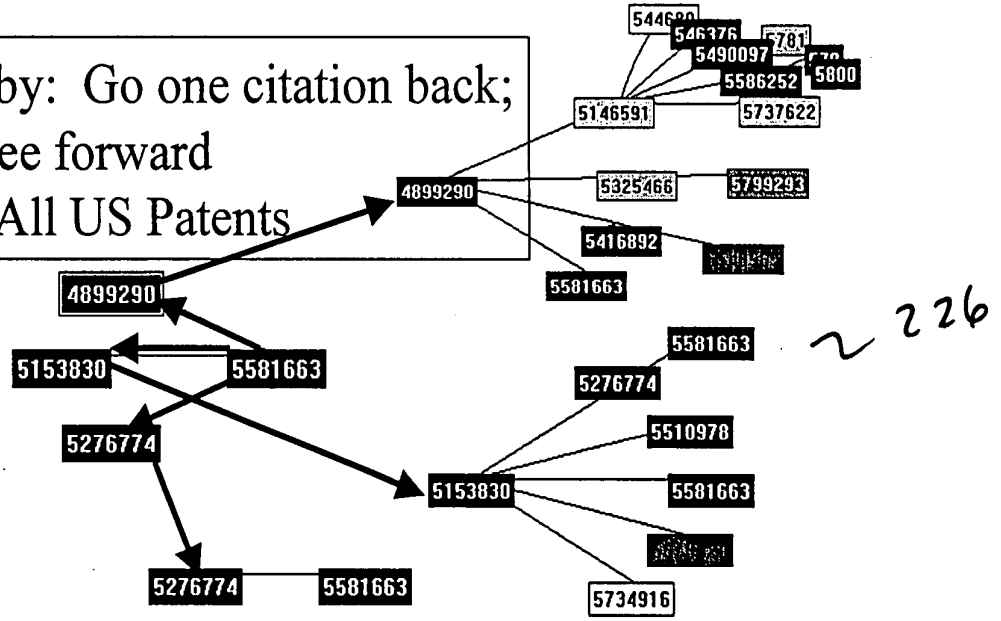

5500
Perform a search on an idea/subject
5502
Determine the prior generation patent of each patent
5504
Perform 3 forward citations on each prior generation patent
5506

FIG. 55

Tool #19

A Citation Root-tree Showing Concept's Environment

Created by: Go one citation back;
Then three forward
Group: All US Patents



~ 226

The Citation Root-tree Focuses on Technical and Market Areas Which Are Being Explored by Others

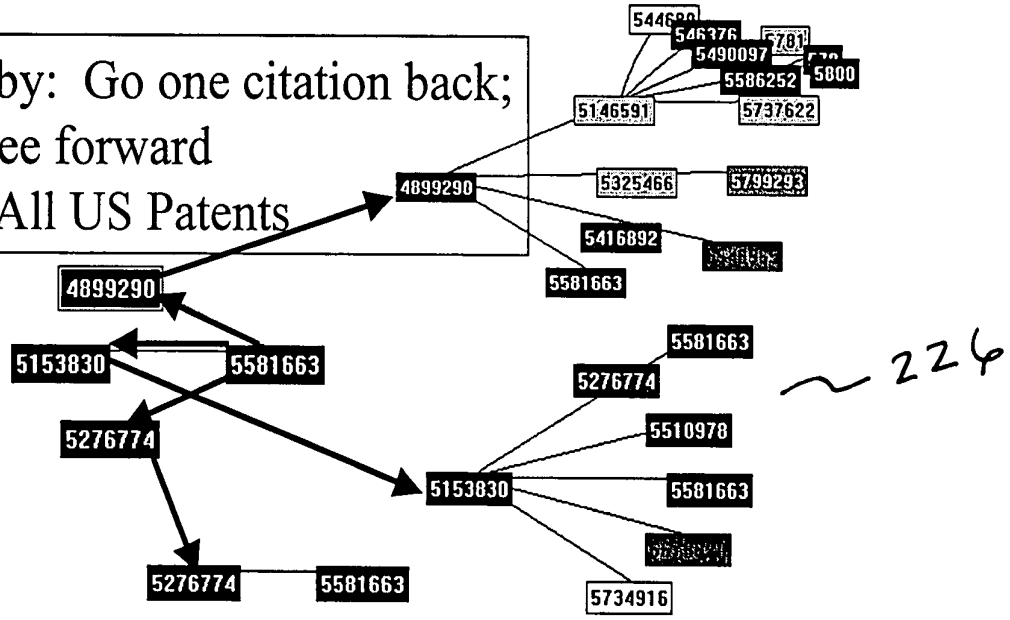
Implication: The Project Team Can Predict If There Are Possibly Other Competing Technology and Markets Under Development.

FIG. 56

Tool #30

A Citation Root-tree Showing Competitive Environment

Created by: Go one citation back;
Then three forward
Group: All US Patents



~ 226

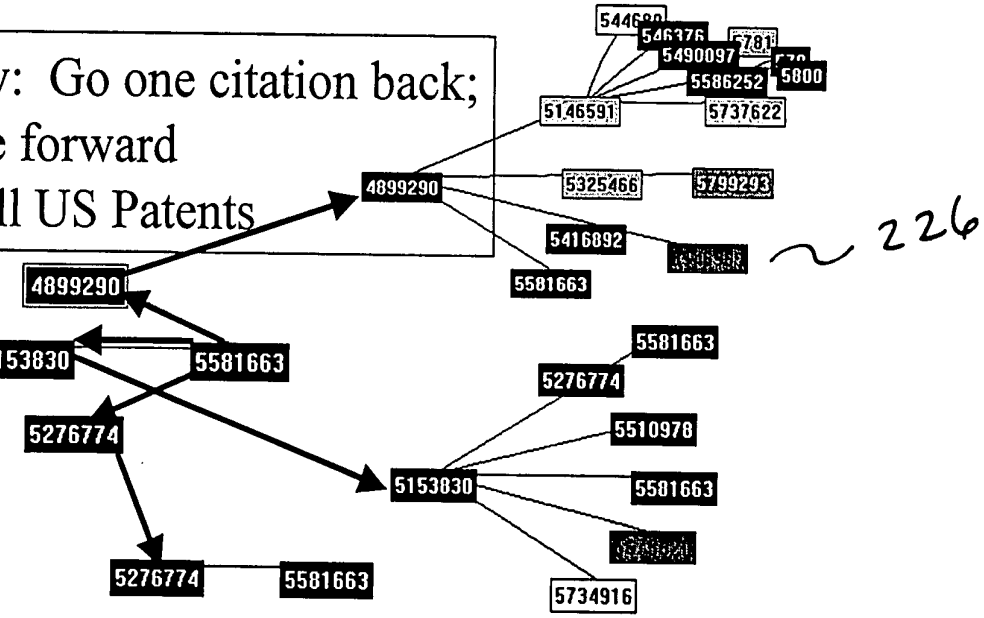
The Citation Root-tree Shows on Which Companies Competitive Intelligence Should Do a Preliminary Investigation

Implication: The Project Team Knows Early On Possible Competitive Activities That It Must Address In Its Project Plan

FIG. 57

Tool #41
A Citation Root-tree Showing Project's IP Position

Created by: Go one citation back;
Then three forward
Group: All US Patents



~ 226

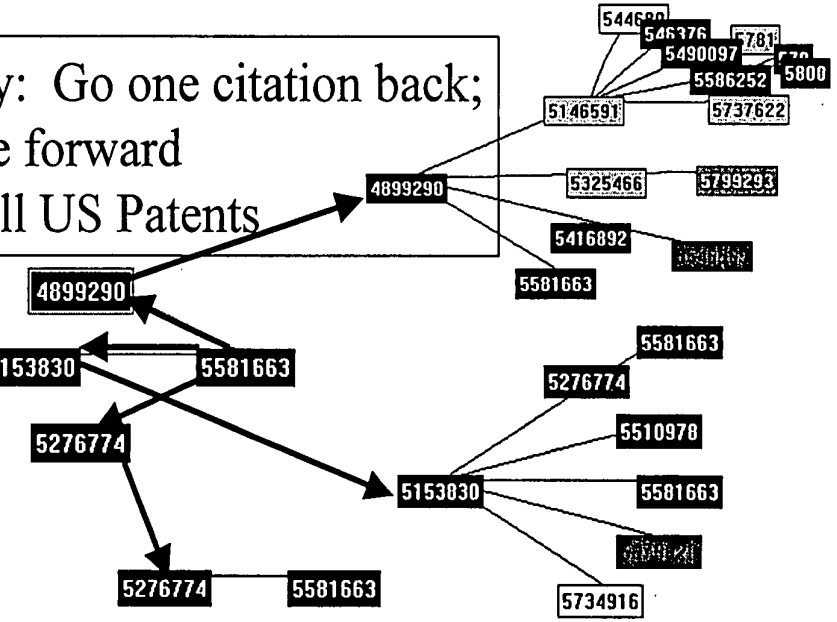
Continuous Updating of The Citation Root-tree Shows Which Companies Competitive Intelligence Must Follow in Detail

Implication: The Project Team Knows If Its Development Activities and Project Timing Are Likely to Yield a Commercial Competitive Success

FIG. 58

Tool #48
A Citation Root-tree To Time Project's IP Filings

Created by: Go one citation back;
Then three forward
Group: All US Patents



~ 226

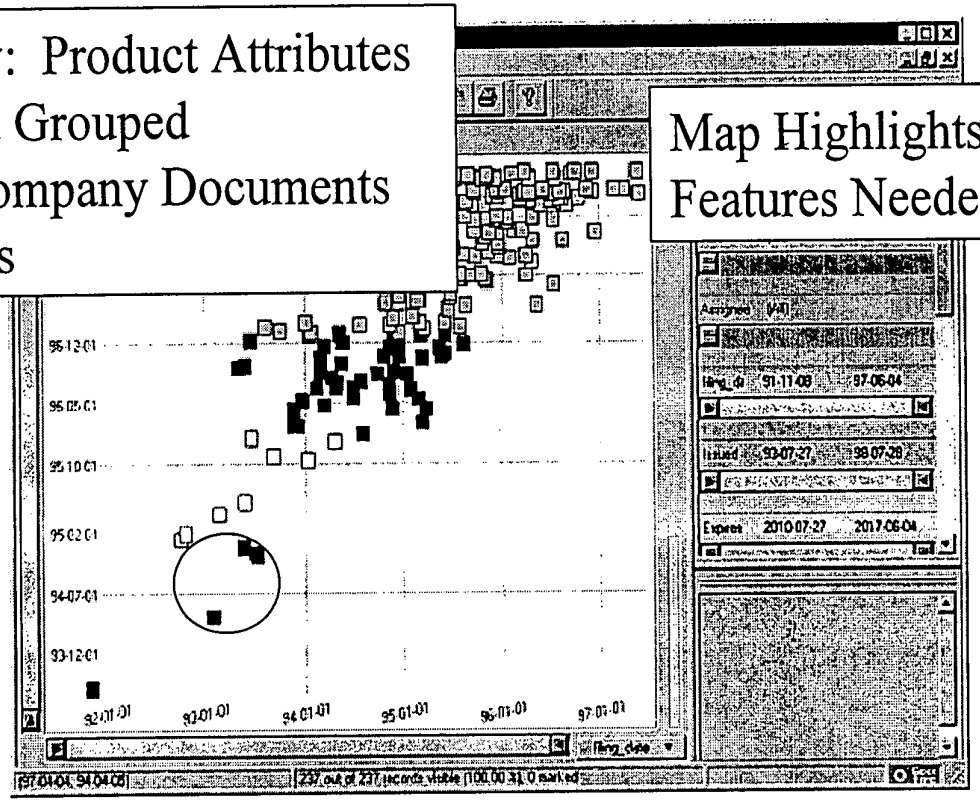
Continuous Updating The Citation Root-tree Shows New Work Competitive Intelligence Must Immediately Check Out to Protect Scale-up Activities

Implication: The Project Team Can Time Scale-up Activities and Filing of Patents to Ward Off Competition

FIG. 59

Tool #52
Proposed Features Map In The Context of All Possibilities

Created by: Product Attributes
Sorted and Grouped
Group: Company Documents
and Patents



Map Highlights Distinctive
Features Needed by Customers

Implication: Proposed Projects' New Features
Stand Out From What Exists Today

FIG. 60

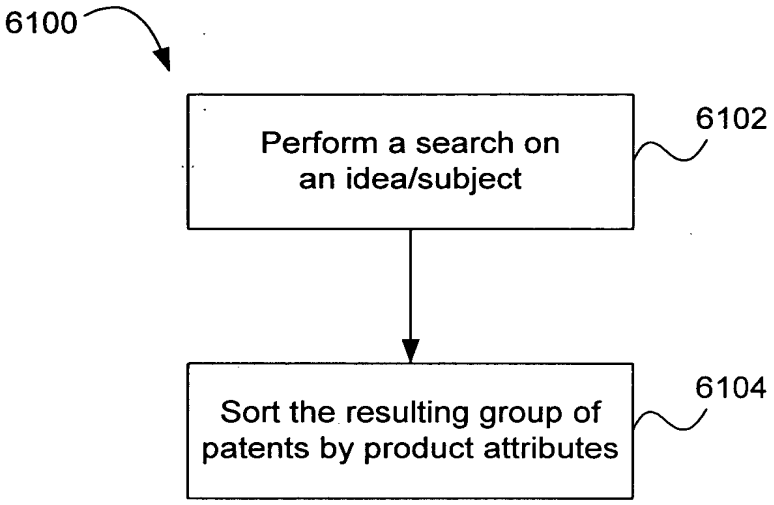

6100
Perform a search on an idea/subject
6102
Sort the resulting group of patents by product attributes
6104

FIG. 61

Tool #31
Cycle Time for Patent Prosecution

230

Created by: Searching US Patents Related to Project Group: All US Patents

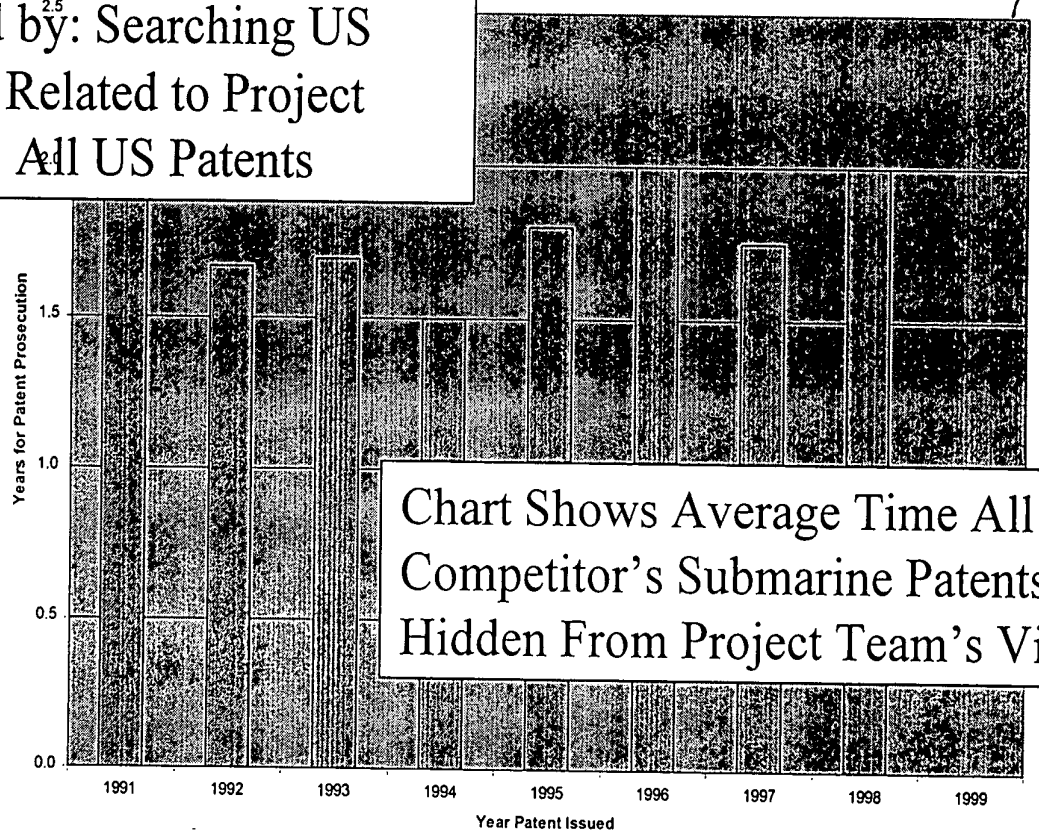


Chart Shows Average Time All Potential Competitor's Submarine Patents Remain Hidden From Project Team's View

Implication: Project Team Knows Timing Risk From US Patent Databases

FIG. 62

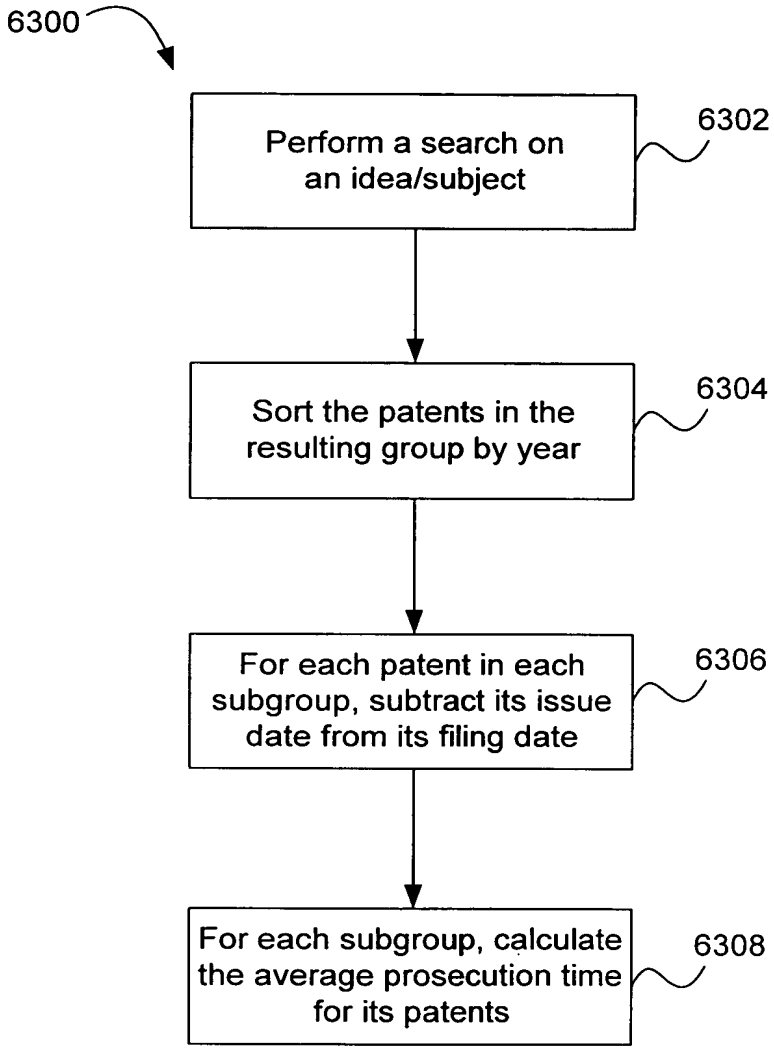
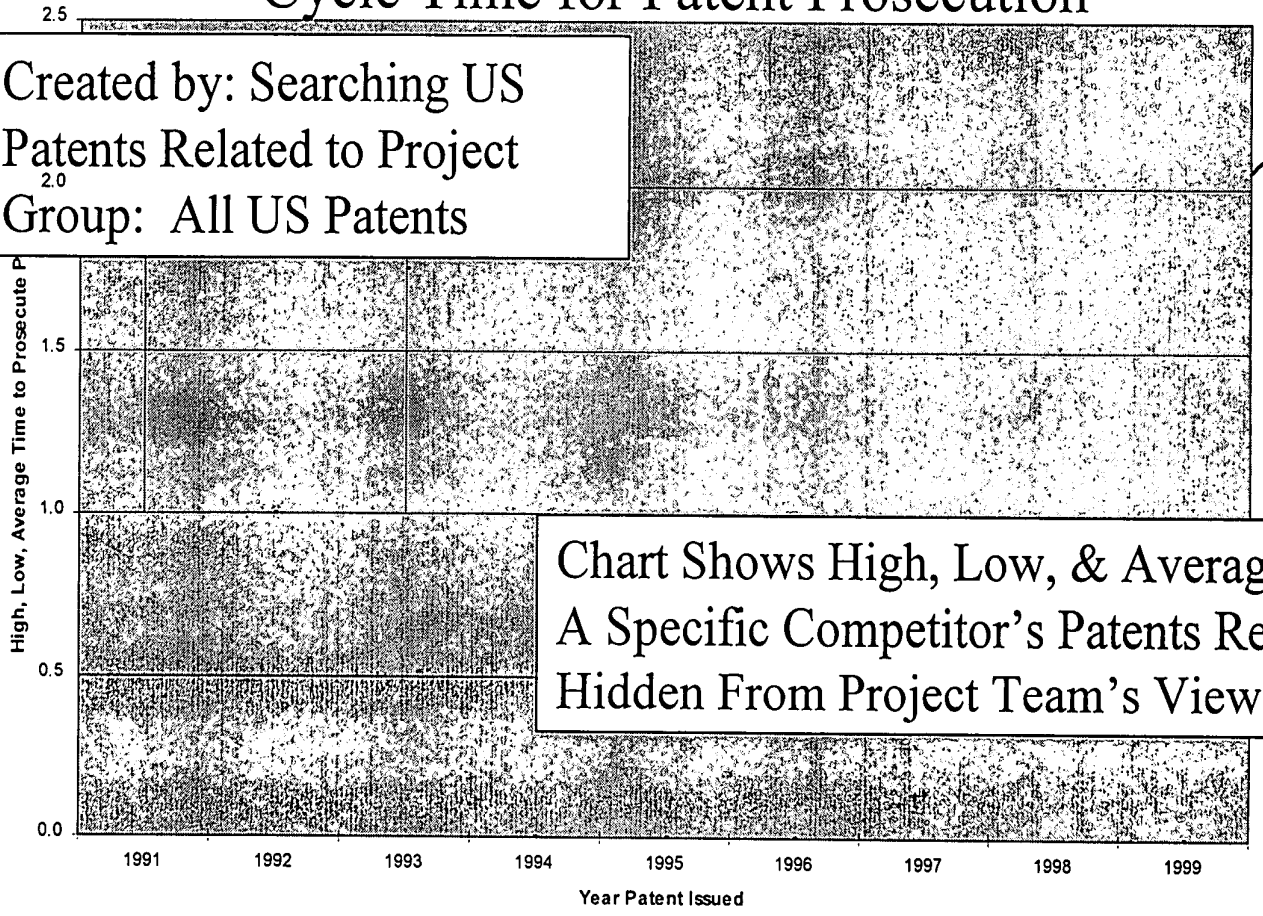

6300
Perform a search on an idea/subject
6302
Sort the patents in the resulting group by year
6304
For each patent in each subgroup, subtract its issue date from its filing date
6306
For each subgroup, calculate the average prosecution time for its patents
6308

FIG. 63

Tool #42

Cycle Time for Patent Prosecution

Created by: Searching US Patents Related to Project Group: All US Patents



230

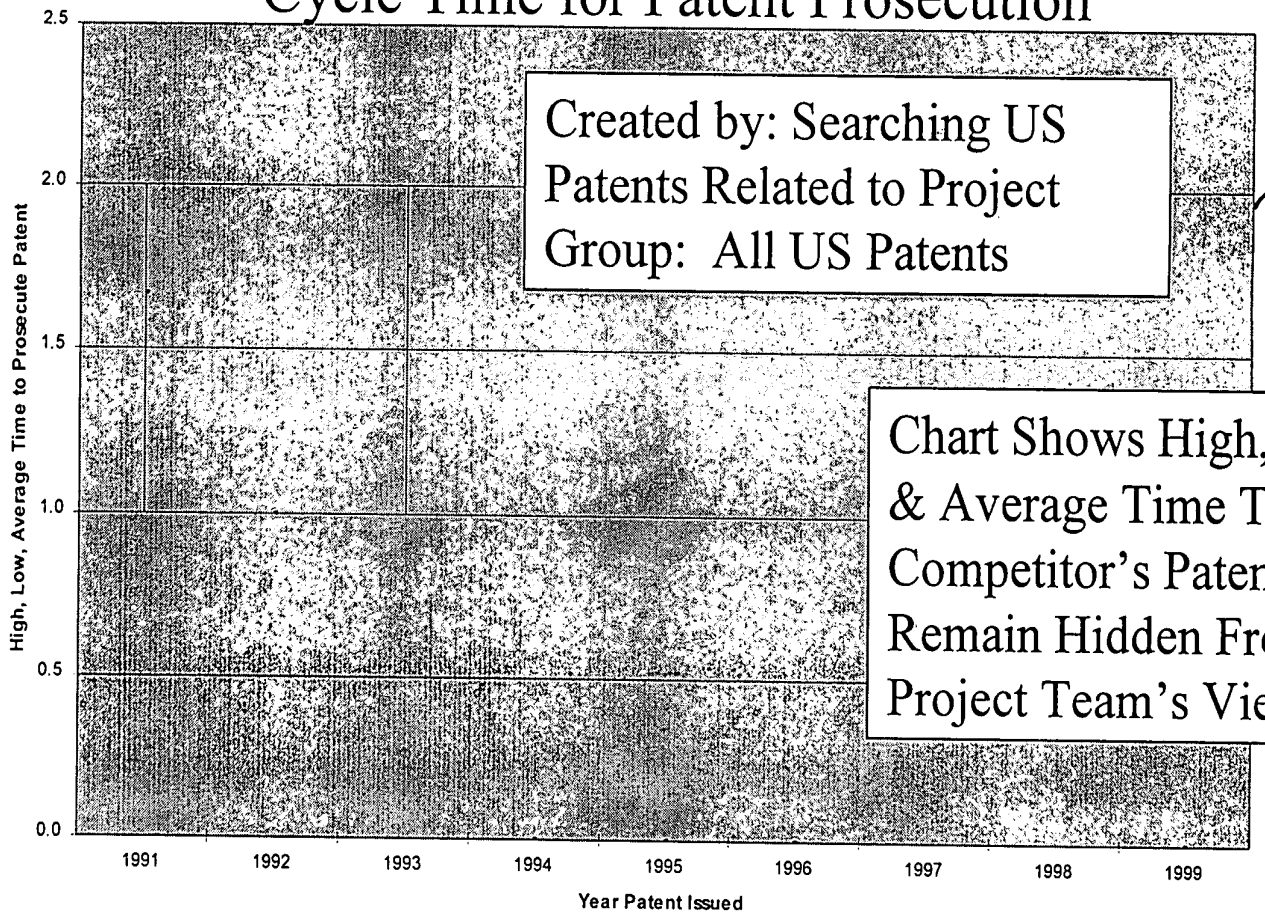
Chart Shows High, Low, & Average Time A Specific Competitor's Patents Remain Hidden From Project Team's View

Implication: Project Team Knows Timing Risk From Specific Competitor's Upcoming Patents

FIG. 64

Tool #49

Cycle Time for Patent Prosecution

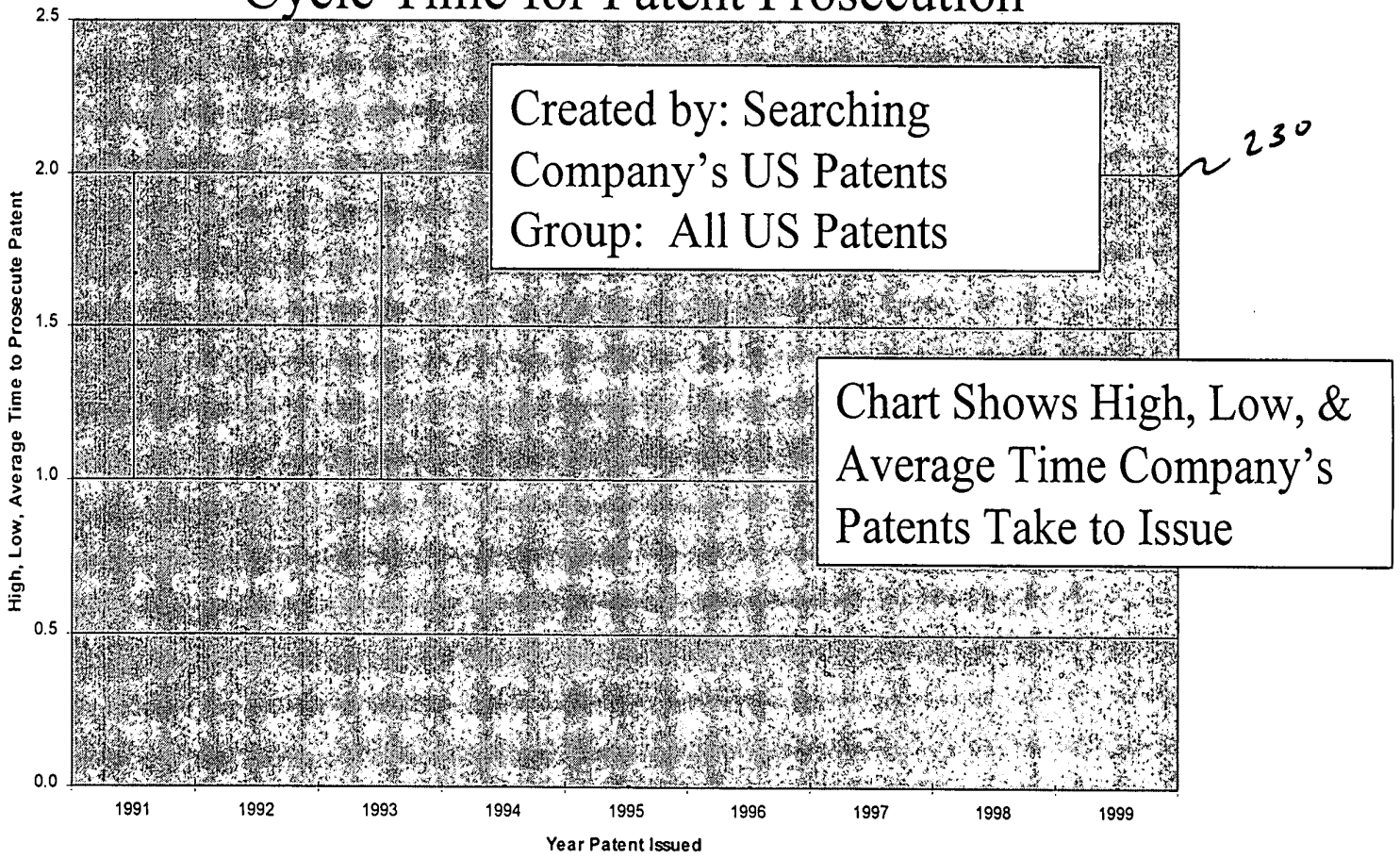


Implication: Project Team Knows When to File Their Own US Application

FIG. 65

Tool #54

Cycle Time for Patent Prosecution



Implication: R&D Management Can Take Steps to Bring This Timing Into Sync With European Applications

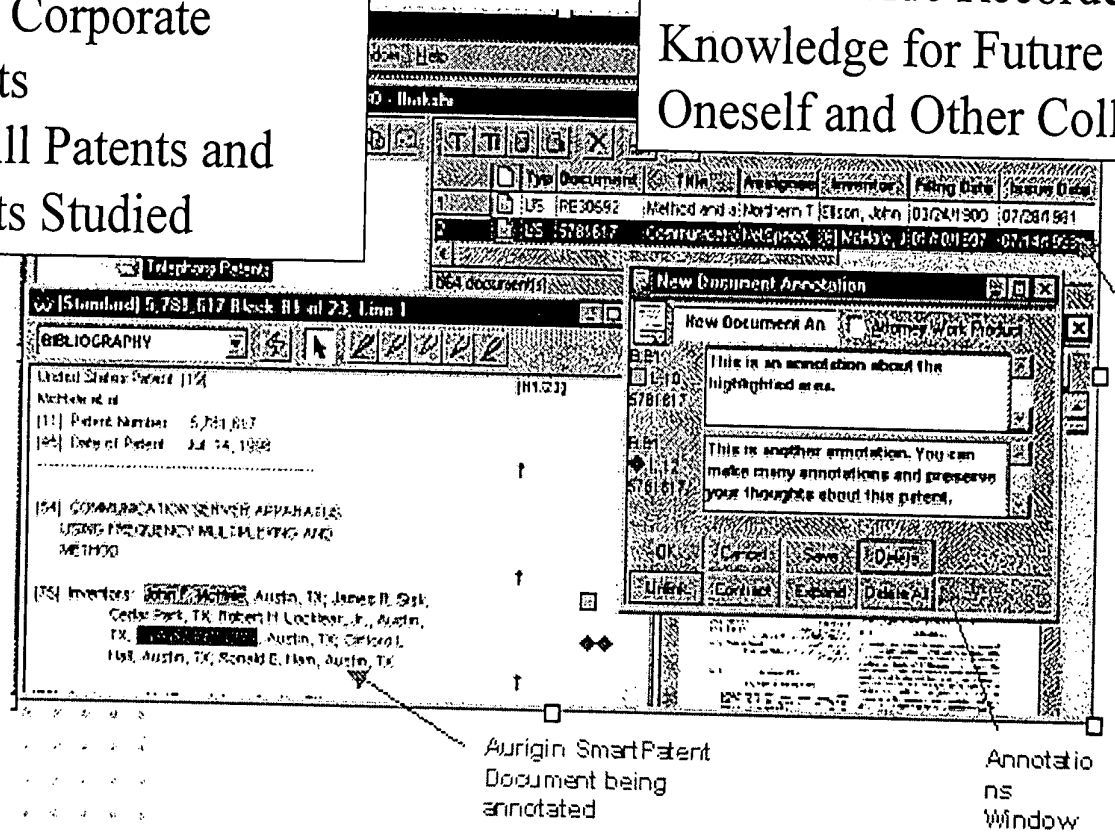
FIG. 66

Tool #9

Notes to Document Thoughts and Analysis

Created by: Annotating Patents & Corporate Documents
Group: All Patents and Documents Studied

Notes Provide Recorded, Indexed Knowledge for Future Reference by Oneself and Other Colleagues



Implication: The "Document Trail" of the Invention Is Started at the Same Time the Idea Is Researched, Giving Early Priority Dates.

FIG. 67

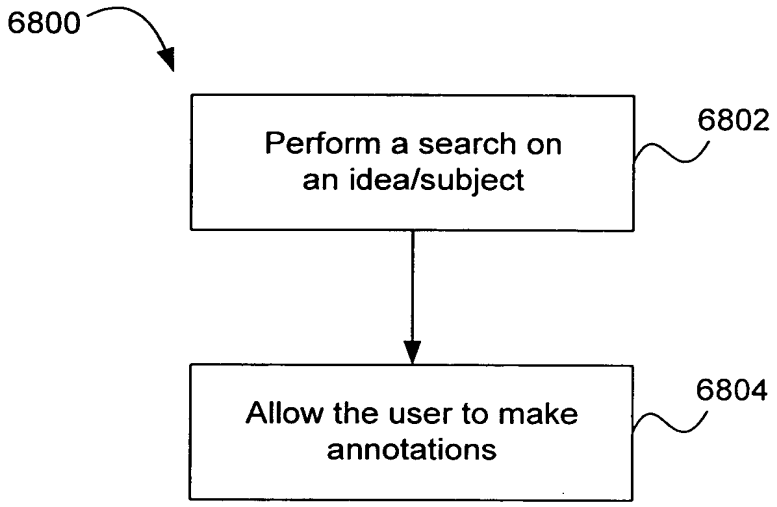
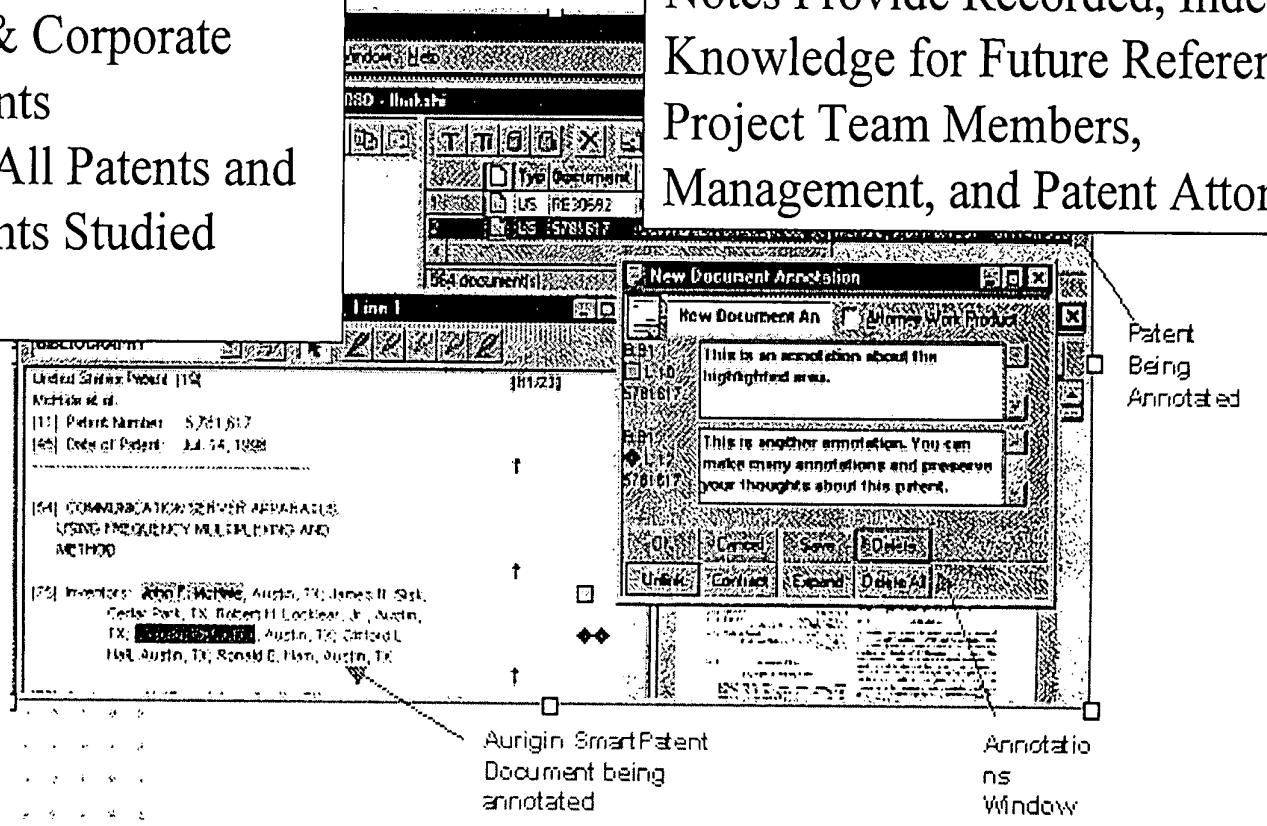

6800
Perform a search on an idea/subject
6802
Allow the user to make annotations
6804

FIG. 68

Tool #20
Notes to Document Thoughts and Analysis

Created By: Annotating Patents & Corporate Documents
Group: All Patents and Documents Studied

Notes Provide Recorded, Indexed Knowledge for Future Reference by Project Team Members, Management, and Patent Attorney.



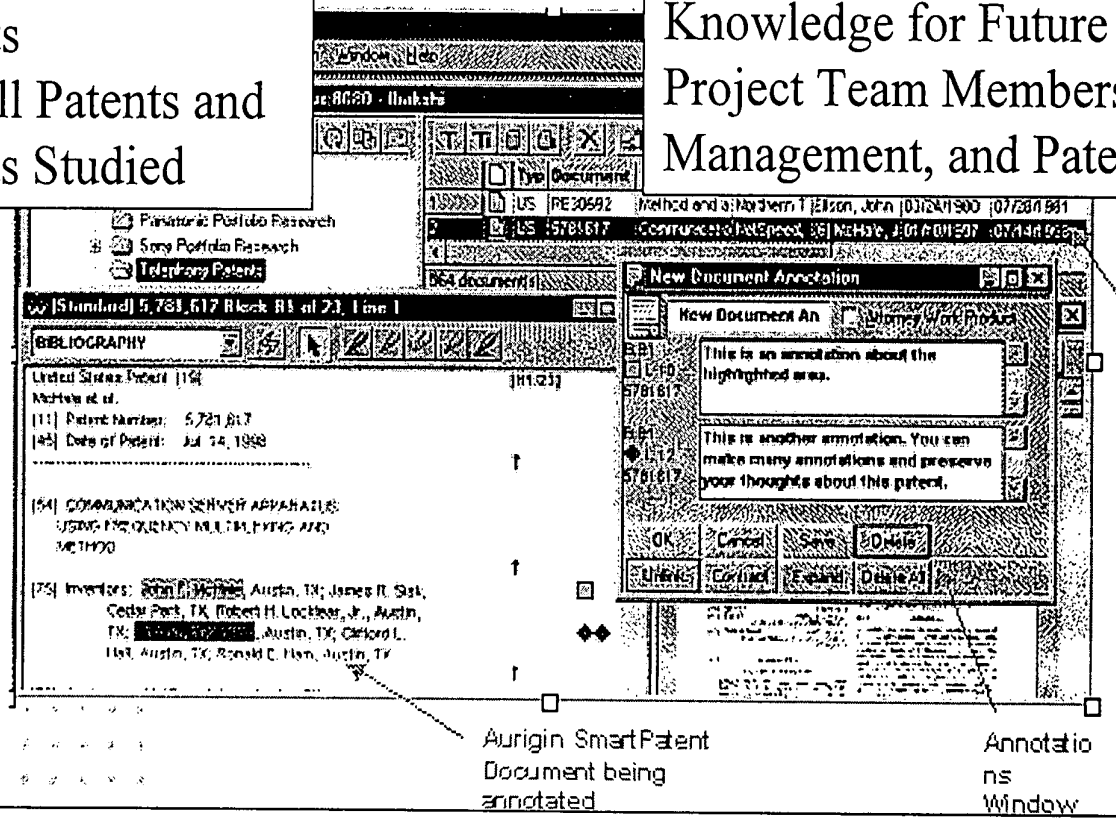
Implication: Documentation of Continuous Effort to Reduce the Idea to Practice and Obtain Patent Protection Is Created.

FIG. 69

Tool #32
Notes to Document Thoughts and Analysis

Created By: Annotating Patents & Corporate Documents
Group: All Patents and Documents Studied

Notes Provide Recorded, Indexed Knowledge for Future Reference by Project Team Members, Management, and Patent Attorney.



Implication: Documentation of Continuous Effort to Reduce the Idea to Practice and Obtain Patent Protection Is Created.

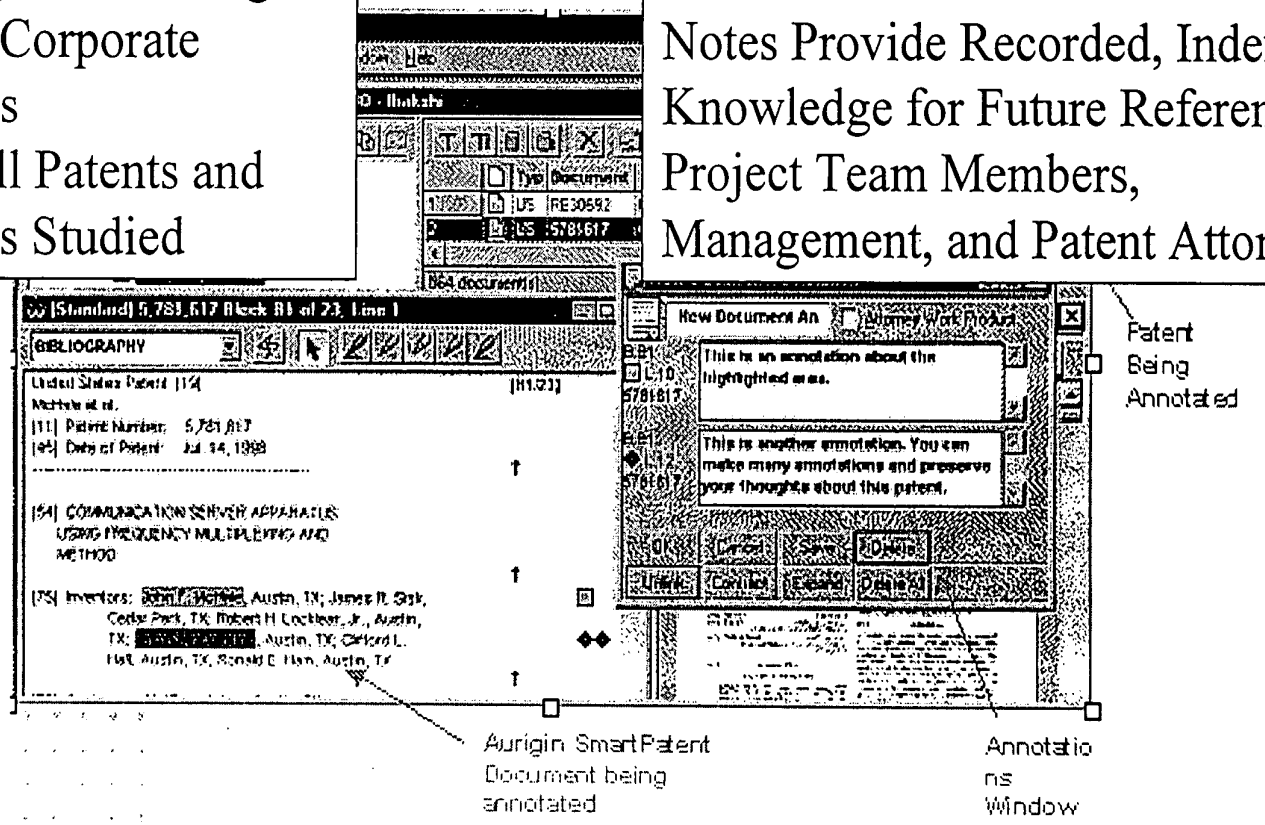
FIG. 70

Tool #43

Notes to Support U.S. Patent Application Preparation

Created By: Annotating Patents & Corporate Documents
Group: All Patents and Documents Studied

Notes Provide Recorded, Indexed Knowledge for Future Reference by Project Team Members, Management, and Patent Attorney.



Implication: Documentation of Continuing Effort to Reduce the Idea to Practice and Obtain Patent Protection Is Created.

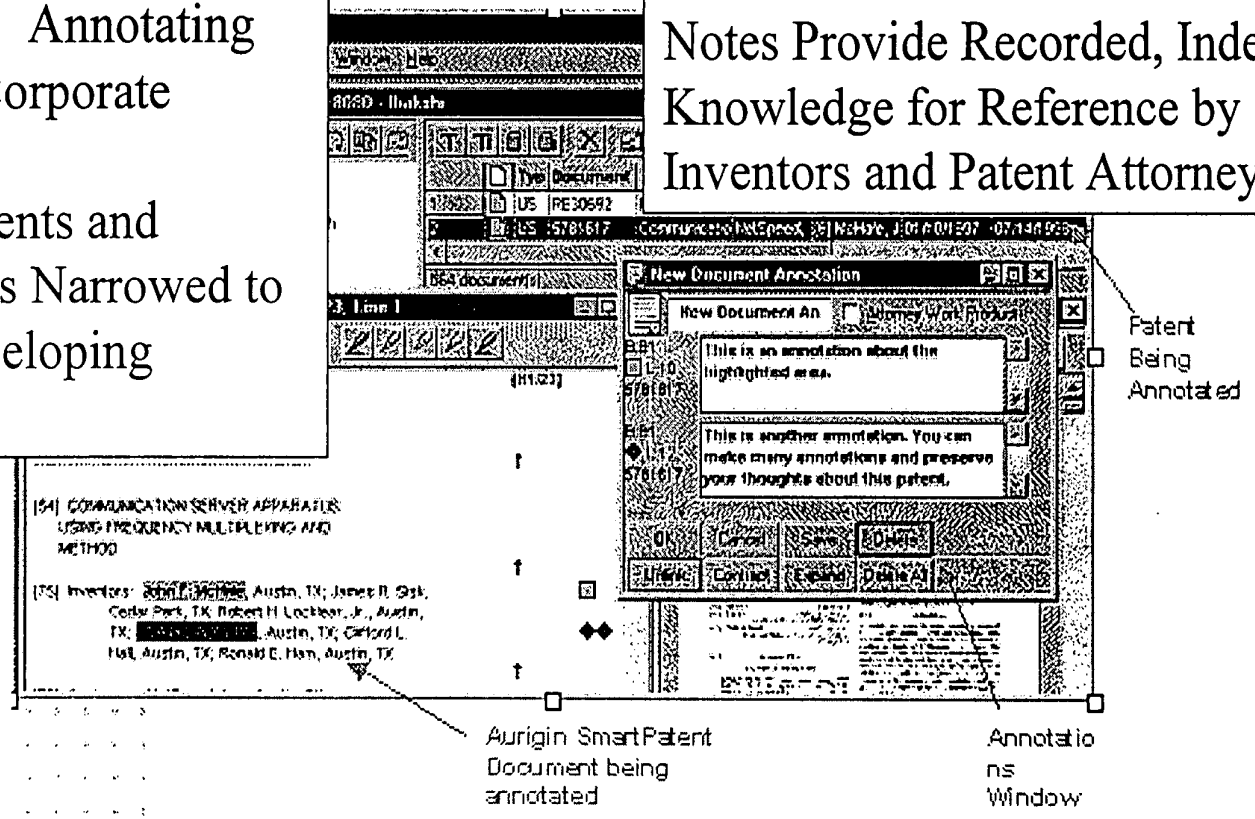
FIG. 71

Tool #50

Notes to Document Thoughts and Support U.S. Patent Prosecution and Foreign Filings

Created By: Annotating Patents & Corporate Documents
Group: Patents and Applications Narrowed to Reflect Developing Product

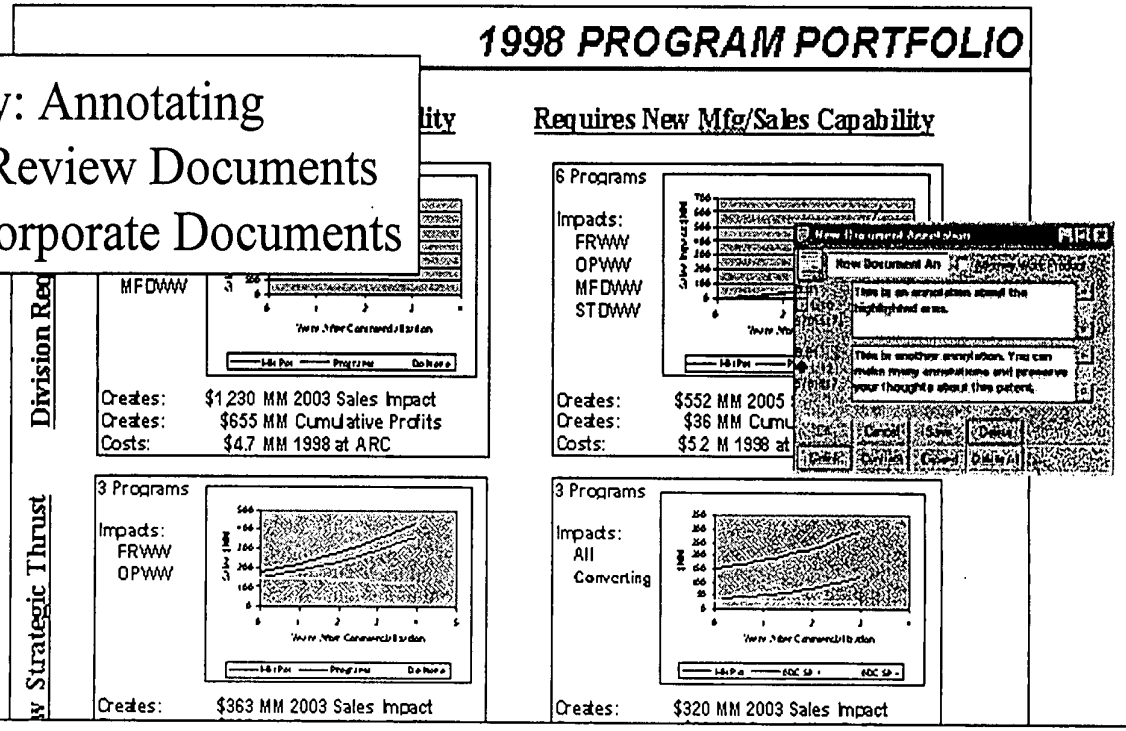
Notes Provide Recorded, Indexed Knowledge for Reference by Inventors and Patent Attorney.



Recorded, Indexed Knowledge Used for Expedient Patent Application Preparation, Reducing Cost and Time

FIG. 72

Tool #55
Notes to Document Meeting Thoughts and Analysis



Created by: Annotating
Portfolio Review Documents
Group: Corporate Documents

Annotations Provide Recorded, Indexed Knowledge for Future Reference by Project and Portfolio Review Teams

Implication: Decision Assumptions Available for Future Reviews Improves Decision Quality

FIG. 73

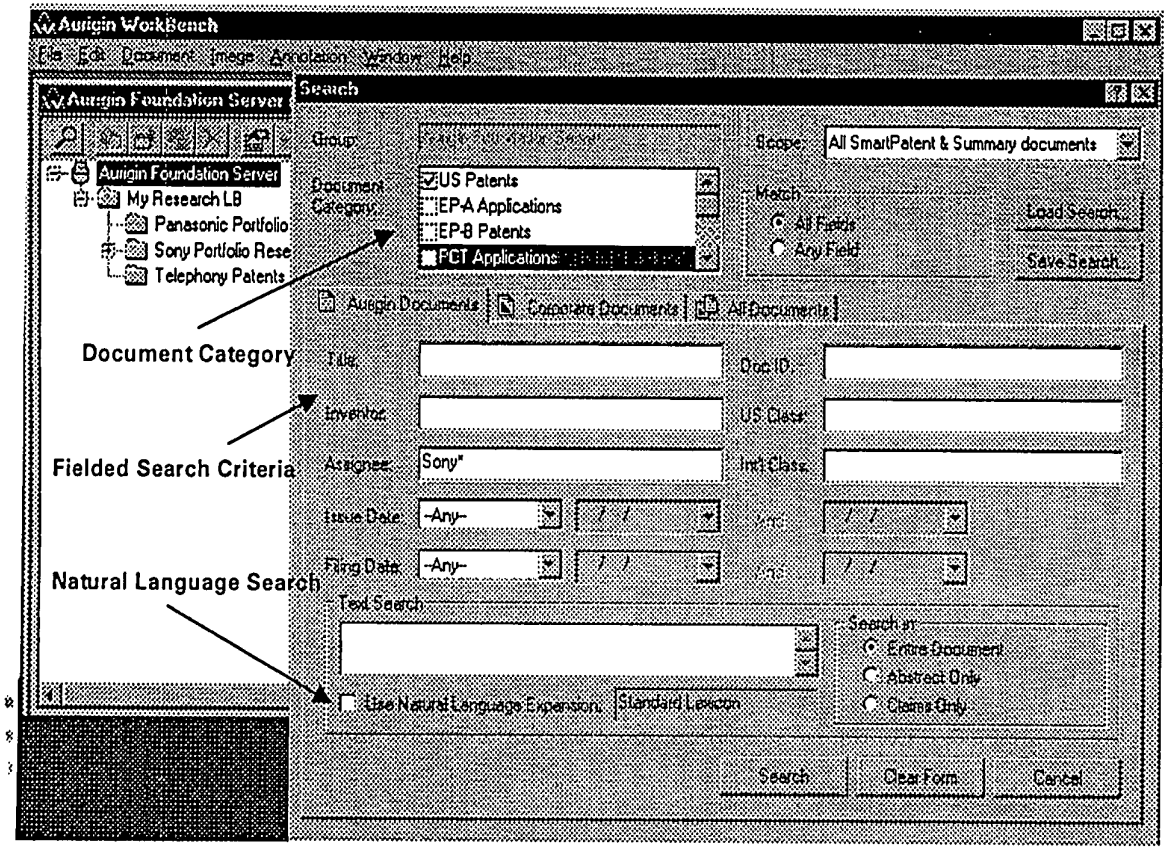

Document Category
Fielded Search Criteria
Natural Language Search

FIG. 74

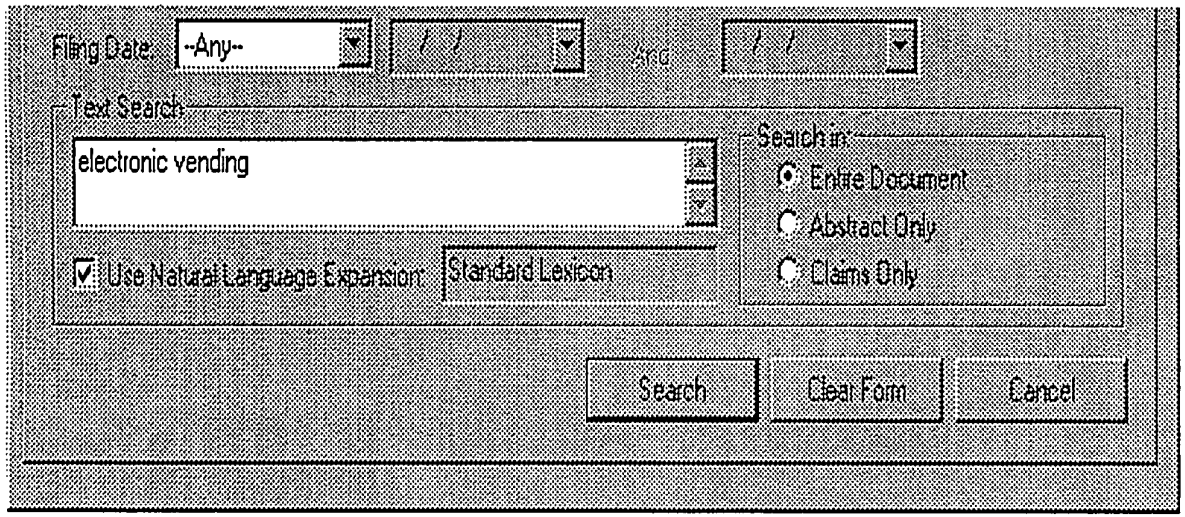

Filing Date:
--Any--
/ /
And
/ /
Text Search
electronic vending
Use Natural Language Expansion
Standard Lexicon
Search in:
Entire Document
Abstract Only
Claims Only
Search
Clear Form
Cancel

FIG. 75